


```

agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaaagtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta caccgagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

```

```

<210> 2
<211> 5
<212> PRT
<213> Homo sapiens

```

```

<220>
<221> Site
<222> (3)
<223> Xaa equals any amino acid

```

```

<400> 2
Trp Ser Xaa Trp Ser
1 5

```

```

<210> 3
<211> 86
<212> DNA
<213> Artificial Sequence

```

```

<220>
<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site
found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
(1994)), 18 nucleotides complementary to the SV40 early promoter,
and a Xho I restriction site.

```

```

<400> 3
gcgccctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaatat ctgccatctc aattag 86

```

```

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

```

```

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promoter; includes a
Hind III restriction site.

```

```

<400> 4
gcggcaagct ttttgcaaag cctaggc 27

```

```

<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence

```

```

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes GAS
binding sites found in the IRF1 promoter (Rothman et al., Immunity
1:457-468 (1994)).

```

<400> 5
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggagggc ctaggctttt gcaaaaagct t 271

<210> 6
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
ggggactttc cc 12

<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 10
<211> 256

<212> DNA

<213> Artificial Sequence

<220>

<221> Protein_Bind

<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10

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ctcgagggga ctttcccgga gactttccgg ggactttccg ggactttcca tctgccatct    60
caattagtca gcaaccatag tcccgccctt aactccgccc atcccgcccc taactccgcc    120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga    180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg    240
cttttgcaaa aagctt                                     256
```

<210> 11

<211> 1110

<212> DNA

<213> Homo sapiens

<400> 11

```
gaattcggca cgagcttggt tcggggggga gcaaaatcca gaatctgcta aacaccaatg    60
ctgtcactca gagtttgtgt atctgctgtc tgtggagctc tggaccaggc ttgagggacg    120
cctgggggtt ccaccacat ctgggggcaa ccagaccccc aagtcactga catgtcgggt    180
tttctactaa tcacgttggc tttggcaatt ctgtatataa taagaagtat tgtgttctca    240
cttgcaattk ggcagaacgg ttcactccaa ggctgaatga ctgccacgga ccatccccc    300
gcaggggtcc tgggggttag tggtttgatt ctgagcacct ctamgcamag agcccccttag    360
tgggtttccct aactggacgg ctaaccctgs tgtggaatct gactkkwtct ggaccgaaga    420
ggacaggctg ctctggagaa atccttgggc cttgtgcctg atgctggctc gggccaccct    480
ggccaccctc ccttcatgcc ccatgggacc aggcagcagc atgggagggg gcagcttcca    540
gaacaccctt ctgctagggg ctktctggct ccctgctggc acggccacat ccatgggtctg    600
agtgtgtggt tggaaatgtt tatcaacacc agtcctcaca gcttccccag atgagcgaag    660
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ggccccctgc tggccccac tggcaggggc tcctgcacgc ctgcaaggcc agagcctccc    840
gccaggtgca ggagaagtaa atgcaggcca gagataaatc gtatttccct ctaactcgga    900
tgtggagtga gaggaaggaa gcaggagtgg agctgagtgt tagtgagagg tggctgagaa    960
ggcgggggtcc cgcttcttgc ttccttgggc atttgctgta ggtgctgggt ttcagcctgg    1020
aagggtgcag cctctgcact aagtctggtt tgggtgaacgt tcatggcccc caatataaac    1080
agtgttcttg gcgttctttg tgactctcga                                     1110
```

<210> 12

<211> 936

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (294)..(294)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (298)..(298)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (925)..(925)

<223> n equals a,t,g, or c

<400> 12
 gaattcggca cgaggaattht aagataccga agtctttaaag tgacctggac gtgaaggaaa 60
 aagtaagatg agaaataaag aaagcctttg taagggtggtt ttaaaagcct tatatgcaaa 120
 ccttttaatc tgtgtttctg caagtgccat ccttgtagac tgttaagagg gtaacatggg 180
 ttacctttgc accagcttca gtgttaagct caccctgttc tttgaagcac ccatgtcagt 240
 attagaagaa taggcagcag ttccttagtt tacatatgtt tgkgcaatta ttttctgnac 300
 ttttttggtc attaatthgt cagtattaca ccaaactgtt tttgcaaaa aaaaattttt 360
 tttgcattca ttaaatthta ggtcaataaa catthttatt atgtgggtca ttttatattt 420
 cctaattthta tttatttcat actgtagtgt acagtattat agttcttcaa tatatagata 480
 tatttttagta aaaaaggaa acgtacgttg tcatthgggc aaattthtac taaagagaag 540
 agcattthatt gtgttttgga acattaatthg tgagatggga tttttcaatt ttattatttt 600
 atthttgttt ttttccaatt actggaaatt ccaaattthg gaactthttga tacgatcttg 660
 tgaaaacact gtattthtga ctgaaaattc cactthcttc atctthgttt tttagctaaaa 720
 agagggactg ttaaatataa tgtatgatac catgacaaaa atctthcttg aattgtcttt 780
 gtaaaagtat tattgaattht tcaattthgt atthctthttg aaaatgacca tgctcgata 840
 aaaatgtagc caaactaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
 aaaaaaaaaa aaaaaaaaaa aaaaanaaaaa aaaaaa 936

<210> 13
 <211> 921
 <212> DNA
 <213> Homo sapiens

<400> 13
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 cctgcgcctg ggccgcgggc agggggcggc ggaccgcggg gcgctcatct ggctctgcta 180
 cgacgcgctg gtgcacttgc cgcctggaagg cctthttgtc tacttgctct tagtaggaaa 240
 cgthtcaaat tccgatggct tgattgtctt tttatggaaa gaatatggca aagctgatgc 300
 aagatgggtt tattthgatc caaccattgt gtctgtggaa attctgaccg tcgcctgga 360
 tgggtctctg gcattgttcc tcatthtatgc catagtcaaa gaaaaatatt accggcattt 420
 cctgcagatc accctgtgcg tgtgcgagct gtatggctgc tggatgacct tcctcccaga 480
 gtggctcacc aagagcccca acctcaacac cagcaactgg ctgtactgtt ggctthacct 540
 gthttthttt agcgtgtgtg gggthctgtt cccaggactg ctactgtggc agtcatggct 600
 agaactcaag aaaaatgcac agaaagaaac cagthcagtg aagaagtthc agtgaactth 660
 caaaaccagg cagcagccat tatctaactt catgaaccag aatgaatcaa atctthttgt 720
 ttggccaaaa tgtaatacat tccagtctac actthgtttt tgtattgttg ctctgaaca 780
 acctgtthca aattgtthtt agggcgacca gthttcgtht tattgtthgt caattaaatg 840
 gtgatatagg gaaaagagaa caaattthgaa tthgtataaa taaaatgtth aattataaaa 900
 aaaaaaaaaa aaaaaaaaaa a 921

<210> 14
 <211> 2541
 <212> DNA
 <213> Homo sapiens

<400> 14
 ggcggaaggg gaggacgtgg gatgggtggcg gactggctgc agcagagcta ccaagcagtc 60
 aaagagaagt cctctgaagc cttggagtht atgaagcggg acctgacgga gthtaccag 120
 gtggtgcagc atgacacggc ctgtaccatc gcagccacgg ccagcgtggg caaggagaag 180
 ctggctattg cagcctgttc ccggggcgct tgcttctct gcccgthctc tatacagacg 240
 gaaggctcct caggagcaac agagaagatg aagaaagggt tatctgactt ctaggggtg 300
 atctcagaca cctthgcccc ttcgccagac cccaggactg actgcgatgt catcaccctg 360
 atgggcacac cgtctggcac agctgagccc tatgatggca ccaaggctcg cctctatagc 420
 ctgcagtcgg acccagcaac ctactgtaat gaaccagayg ggcccccgga attgtthtgac 480
 gcctggcttht cccagthctg cttggaggag aagaaggggg agatctcaga gthctthgta 540
 ggcagccccct ccatccgggc cctctacacc aagatgthtc cagcagctgt thccattca 600
 gaattctggc atcggthatt ctataaagtc catcagthtag agcaggagca ggccccggag 660
 acgcccagaa gcagcgggcg gaacagagca tctytgaaga gcccggtgg gaggaggag 720
 aagaggagct catgggcatt tcacccatat tcccaaaaga ggcaaggth cctgtggcca 780
 aaattthctac atthcctgaa ggagaacctg gcccccagag cccctgtgaa gagaatctgg 840

tgacttcagt	tgagcccca	gcagaggtga	ctccatcaga	gagcagtgag	agcatctccc	900
tcgtgacaca	gatcgccaac	ccggccactg	cacctgaggc	acgagtgcta	cccaaggacc	960
tgtcccaaaa	gctgctagag	gcatecttgg	aggaacaggg	cctggctgtg	gatgtgggtg	1020
aractggacc	ctcacccccc	attcactcca	agcccctaac	gcctgctggc	cacagattct	1080
ggtggctccc	tgctggccct	cttgggcctc	tgctcacacc	tggaagggg	ctctctaaat	1140
cccggccaga	aactctgact	tgtgccaaca	ataggatgac	ccaagggaga	ggaaacctat	1200
cctcctcacc	agaagagcct	gtgtttttct	gctgaacacc	cactgttcct	gaggactcct	1260
gctgggaagt	cccaagggat	agttctagcc	cttctgcctg	tgtagacaga	agctaaacca	1320
ccagtctctc	tcggaggaag	ctgagacaac	atactctgtc	catacataag	caggcagggg	1380
gggccatgcc	acctaccctt	ggctaaacag	ggacagtga	cacatttttg	ttcctatccc	1440
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ggcattttcc	attcctggaa	aggtcctctt	gggggttcaga	atccagagac	caaaccttga	1560
cccacctcct	tcctttcctc	cagcccacgc	tggtctgtcc	ccatgccttc	ccagggtctc	1620
ttcatgtcag	atgcacccaa	gtccttagcc	cagctgtgcc	acctgcagga	gttcgctctt	1680
gcgtttcttc	ccctcccaaa	gaagggaggg	ggctacttca	ggcccttctg	tgtgttgcc	1740
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acagctacca	gcggtacaga	gcggtgatca	aagccgagta	cttacaactc	tggtgaagcct	1860
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tctcatcagg	cttctgcaaa	agctcttctt	cctgaagaca	gaccagcct	ttgtgctctc	1980
accctccact	ctggtaaaag	tgcacctctg	ggggaatgag	gggctgcagg	aatctctgga	2040
gagcctgggt	cttcacgatg	ctgctctggg	gattcttgta	cctaactctg	tgtgctcacc	2100
aatgagtga	agggatcgtg	ggctcaggac	accgagagag	tgaggctact	tccacttcaa	2160
accttcagt	aggggtggg	atggagagaa	tgtgaatct	tttttttgac	gggatgggg	2220
ttttctcttt	gtaattattt	cttttagttta	attaaccttt	tggttggttg	tgcaatatta	2280
tatattttaa	attataatgc	atctccccag	agtattttgt	agctgggaaa	agaaaaaagg	2340
aaaaaaagaa	aaaaagattc	taacagctgt	tagttttata	attaaaaaag	aaagaaaaaa	2400
gaactttgtc	ctgaaccttt	tacagacttg	ccgttaacag	cattaaagt	attcacccga	2460
agctgaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaact	cgaggggggg	cccgctaccca	2520
atcgctgtg	atgtatcgta	t				2541

<210> 15
 <211> 1046
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> n equals a,t,g, or c

<400> 15						
agtgaatcct	gagtggggtn	ntcttttagcc	taaacctgga	gtcaccacag	agctttttata	60
aacagtgaga	aacctactac	ttcctacaga	aactgtgctg	tctgcaaagc	tcagcgtctg	120
ctccagcctg	aatccccagg	ccctgtccct	gtacacacct	agttttgagg	tcaggacatc	180
acaaaacatc	tgccaacatc	gaaaagtcac	caggagccac	ccagacgtgg	ggtgtatttg	240
tggaagaag	gagcatctta	gtctgcttcc	ttctgaggcc	cacagttcca	gaaggactag	300
cgtcctcaga	gcattgtgta	gtggctgttc	ttgtcttttc	ctgggtgggtg	ggcctggtga	360
cccctaacac	caacggagct	gttcccaggt	tcatttctgtc	cctttttctg	tggtgagatg	420
aggtcctcct	tgccctcctt	gctgggtggg	ctttctgttt	tgaccacatc	ccttggaagc	480
gtggctgggc	tgcgtaactc	cagagcagcc	tggtggtagc	tggggctgcc	ttctgagttt	540
gggctgggtg	atgctgagta	tttgcatcca	gagccttagg	cattgacctt	ggctttctgg	600
gaccctacgc	ccctctgttt	gcctttgtca	gtagagacct	tctcacatta	gggattcatt	660
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ggacctcctg	ttctcagctc	cacctcagcc	acacttggct	gtgggtcagc	ttcttctgaa	840
tcagcatccg	caggacagcg	ccaccagcc	ctgccacact	tgcttctctc	gcgcttcttc	900
agaggctgga	gccaccccc	atgctcgtcg	tctgttctgc	ttttttgatg	cactacttg	960
tccctttcag	cgtattgctt	atgtcctatg	ttgggttaaaa	aaaaaaaaaaa	aaaactcgag	1020
ggggggcccg	tacccaatcg	ccttat				1046

<210> 16

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

```
<220>
<221> misc_feature
<222> (940)..(940)
<223> n equals a,t,g, or c
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<400>	17						
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aaacctct	cattcc	gaaaact	tctgca	cttaact	ttcact		120
ccaggaag	gcttca	tggatatt	cacagag	agttttt	g		180
acagtcac	tatgct	tgggtgt	acttctg	aaaaact	tatttaa		240
tgggtctc	tcagaak	g	accttct	cttcttat	ctaattc		300
tttgcaata	tttggtt	ccattt	ctcacac	ctgcctt	tctttct		360
cgttagct	atagtgt	ccactaaa	gcac	gctgcag	aattctt		420
taactaat	taaaagt	ggaacat	catgttt	gaagt	tcattatt		480
acatctta	g	gcttttt	agccag	gtat	ccttgag		540
atctgcatt	cttttata	actaagt	tactttat	gctttat	gactgtt		600
tttataag	gtcactat	aaattg	ggtaatt	tatgttat	tatcaaac		660
aaatctt	taatttt	ttttgtt	tatactt	gggatca	gaagag		720

aactcttctt	ctgaaaaggc	ttcttgggtac	ttaaagtagt	aaaactataa	aacaataaac	780
atccagatatt	gagagatgat	atgatagggc	attatgaatt	cctatgggtg	tctgtaaatt	840
atgtatgtca	gttggacatt	gtagaaggta	tgtaaatcag	catagtgttg	tataacttaa	900
ccttgattta	taaggtctta	agattatgac	tattcattga	catctcatga	gaagctttag	960
aagactttct	atTTTTaaac	accattttata	tgtggacttc	tggtgtcact	gactttgggc	1020
tttatatttt	catagagtct	ttatggaaaa	aatagaattt	atTTTccact	cttgtagcta	1080
tagctgctgc	acactttcac	cctgattttat	ttttttgttt	cttagctttg	atgttttcaa	1140
accaaggatt	gtgatttttag	gttagaatta	catattagaa	gcattaagac	tatgtctttg	1200
gatcagaatg	cttttagtgat	aaacctactt	tgaagacata	ctcttaagca	atctggatct	1260
taaatttatg	tgaatacttt	tttagaaaa	gataaagaaa	aatggaatta	cttcaaagtg	1320
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ttttagactt	ttcaagttac	cttccctggg	aagtttgtgc	agtgttatag	tttagtttag	1440
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aacatatatc	taaaacactt	aaaatgttag	gaagtttggg	aatgttataa	cctaaacgtt	1560
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ttttccaata	attgatattg	tacattccta	gtgccattag	gtatgtatgt	atgtaacttt	1920
tacagttttt	cagctgaaaag	ttgtaagtat	tttttttttt	tgatcggggc	tctttaatct	1980
cattttaatt	tcctttgttt	gaactgtagt	tatttattcc	tatattaacc	atctaaacca	2040
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agaaccatgg	ggccccctct	ggtttcttgt	gttgaatgag	gcaagggtaa	tcatctgatt	2280
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attaactcat	gtaatctctt	aaatcttaca	agcattgatc	catttcaaca	aaaaggtaaa	2460
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caaatatcaa	aaaagacata	gaattttaata	ttgatacaat	ttcacctcta	aaatggattt	2700
gaagaaatgc	aacttttatat	caaaaaatgt	catctgattt	cctttgtttc	ttttttaaat	2760
tatgtaatca	gatgatttta	tgtttttttt	tcaggggagc	ggaatatttg	tttcttttac	2820
ttgttgtttt	cagttttctc	tgccattcat	gtttcttttt	tgtgttcagt	gtttcaaata	2880
caatttgat	ttaaggattt	taaaatacca	aactgtaact	gagtacagt	gatcgttttc	2940
tgttaggatg	ttaatattat	acaatgaaat	ctataaagtg	ttgtcaattt	gattattgac	3000
acatatataa	tgttttacaaa	taaaactgtg	tattgatcaa	gttactatga	aaaaaaaaaa	3060
aaaccggggg	ggggcccg	aacccaatcc	c			3091

<210> 18
 <211> 796
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (398)..(398)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (780)..(780)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (787)..(787)
 <223> n equals a,t,g, or c

<400> 18
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attattatttt agtgtgattg atagtatcta gaatggcagg tgggtgcataa aagttaaaga 120
gaggggaaag attacttagt ttgggttatac agttataaac accatgcagt gtattcgggtg 180
gactgtgcta tttctgttta tcttttgggt tttgggttttt gttttttttt ttgccttcac 240
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ttatactgaa attaccttag gatattttttg cataatactc tcttactgct tacattctat 360
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agttattttc ctgtttcaac actattagaa gtcttataaa ttatgctaata tagcatggca 600
gtcatgttac acactcttaa cattgccaaa gaactgttga tttcgtttga gaaaaccctg 660
ggactgtgtg tgtgtagggt ttgttttgat ttttaacaacc aaaaatagaa ataaaattag 720
aactgcgttt taagttctaa aaaaaaatt taaaaaaa aaattttaa atttgggacn 780
aaggcgnggg ggtccc 796

<210> 19
<211> 822
<212> DNA
<213> Homo sapiens

<400> 19
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atctaccac attatcagga atgctttgta agcatcattt taatggcttc aaaatagtct 180
atgatttaga taacgatgat ttggccattt ttgtgggtcac ctaccactta ttggagacat 240
attatattct gagaatatta tgccatttat aggcattaat tccaatatgc aaaagaactt 300
tgaaatgaag gcgttattat tcccaatttt acagatgctg aaactgaagc tcagagaggt 360
taagttgccc gaggccatac aggacaatag gggcaaagat ggttttgaat caatggatgt 420
ctgacgacaa aggccatgat ctcaccactg cactgcactg tctcctgaag ccctttgtgt 480
gaaatgatta aatacatcat gattatgtca cacttcactt acccttctcc aggtagtgtga 540
acatctggat aattttacat cgtcaaatat aagggtgtta acaattaaag gataaaacag 600
ggtgcggccg gaaaggcgcc cgccccctcg cccatcatgc aatgcacatt cgtgggggac 660
ctggcgctaa gccattcgta gatgacctgc ttctggctcg ggggtttcata tgtagcagag 720
cagctccctc gctgcaatct attgaaagtc agccctcgac acaagggttt gtaaaaaaat 780
aaataaataa aacaaaaaac aaaaaaaaaa aaaaaaactc ga 822

<210> 20
<211> 657
<212> DNA
<213> Homo sapiens

<400> 20
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gcactgctgg aattgcttcg ggccattgct tcttgtgctg ccattgggtgcc cctattgttg 120
cccctttcta cagagaacgg tgaagaggaa gaagaacagt cagaatgtca aacttctgtt 180
ggtacattgt tagccaaaat gaagacctgt gttgatacct ataccaaccg ttttaagggtac 240
tatatacaat gttcattttc cttgagtttg cctctaacaa tgttttttaa ataactccat 300
gggtgttttt gtttttcagt gatatgtgct ttttaaaagc mtatacacc tgggctgggt 360
tgcggtggct cacacctgtg ggtccccagc actgtgggag gccgaggtgg gatggatccc 420
cgaggtcggg agatcgagac catcctggct aacatgggtga aaccccgctt tactaaaaat 480
acaaaaaat tagccaggca tgggtggcggg cacctgtggt ccagctgct cgggaggtg 540
aggcaggaga atggcgtgaa cccgggaggc ggaggttgca gtgagccgag atcgcgccac 600
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<210> 21
<211> 632
<212> DNA
<213> Homo sapiens

<220>

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<220>  
<221> misc_feature
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ctgctgcact	tgctcagcct	gggaccttgg	ggtcargagt	cgtggaaacc	ctggctcttg	1020
gctgggtgtg	tggacgtgac	cagcctgagc	ctcctgagtg	acagaaaggg	cctgaccceg	1080
arggagcggc	gggagctgcg	gcgccggamc	atcctgctgc	tctactacct	gctgcgctct	1140
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cacgtccctg	gcgttggcct	ggtcacaaag	ccgctcatgg	attacttggc	cacctggcag	1260
aaaatctact	tctacagttg	gggctgacag	actcccggaa	ggaggggtgt	gggaggggtg	1320
ggcagggagc	ccctcttccc	taataaaaact	gactccggca	gcaaaaaaaaa	aaaaaaaaaaa	1380
aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaagggcggc	c		1421

<210> 25

<211> 638

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (597)..(597)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (628)..(628)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (630)..(630)

<223> n equals a,t,g, or c

<400> 25

cggcacgagt	ttatttccaa	ggtaagtagg	ggtagactag	aatggacata	gcagctcctg	60
tcttatttgc	tttaaggctg	caatttctgt	tcatttctct	acccatgcac	tttgaaattt	120
cattgctctg	caaagtttcc	actgaaacat	caggctcgaga	agacaaaatg	tagagaatag	180
caaaccaaaa	atatactctt	cagagagccc	agtgatggaa	attatattct	acgtaaggcc	240
attaaccagc	tacaaagcag	tagcagctaa	ctaacctggg	gataaaagac	catctgctgg	300
ctgcatactg	attccaagca	taatgggtct	cccattccca	cctccacctg	gctccacaat	360
tcctgcatg	tcttttaacc	tcctcttctt	cagactcaat	gcttccttat	gcaactccag	420
aaaccagta	tcttatttaa	acacacctgc	catttgaagt	agacaggtea	aggagaggta	480
ggtccttctt	ctggtataac	ctcaggttca	tcatgggaat	atagataagc	tgtttcactt	540
tcttgcccta	tttactctcc	tgtaaaaaga	gggagttgca	ggagattctt	caaagcnaaa	600
ctgaatatatt	tgatggattg	aaaaaaanan	aaaaaaaaa			638

<210> 26

<211> 749

<212> DNA

<213> Homo sapiens

<400> 26

aaggccaagc	caatggtaga	agaaaacagc	tttattgaag	gggcagtggt	atagctccag	60
ccctgttaca	actctgatta	ctcctgcaca	gcaggctctg	gcagagacta	gcagctcagg	120
gcagttttgc	agtcatttat	akswaytygg	cacgagggca	gattaagggg	tgatttgtgc	180
aaaaatttct	agggaatggg	taataacttt	tgggtcatcg	agtcaatgcc	atggaagaga	240
ggggggataa	cccctgggtg	ttgcgatggc	aacggtaaac	tgacatggca	actgatgagc	300
gtgtcttacg	gaaagctcat	tccaccccag	ccctgtttca	gctagtcttc	aatttggtcc	360
agtgtccgag	ccctgectct	ggagtcaagt	cccacctcct	acctcataag	gagagacata	420
aatcaatgga	atagaatcga	gagttccaga	aataaactca	tacctcgatg	atcaattgat	480
tttcaacaac	agtgccaaga	ccattcagtk	gggggaaaga	atcatatttt	caacaaatgg	540
tgccagataa	cgacatccaa	aggagtgcaa	ctggggccct	gtctcacacc	atctacagaa	600
attaagtcaa	agtgcctcaa	acactaagag	ctaagactat	aacattctta	gaagaatata	660

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<210> 29
<211> 835
<212> DNA
<213> Homo sapiens
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<400> 29

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agaacagtta	tctctctggt	aaagttttatt	tgctcctgtg	caagggtttca	tttcttttcaa	120
cagagtga	caacttgagg	tacaatgtta	ttgttagtat	attttcttct	tatgtctgtta	180
atatttgga	ctaaattctt	tcctttaata	atacacatgt	ttaacccatg	catacttaac	240
cttataaaac	ttgttttttc	tctcatgcct	ggaagccatc	aaactccaaa	tggtcaggca	300
accagagcct	cagatgatgg	ctccgctttg	ctaggaaccc	ccagtagacc	tctcggaagc	360
atccgacagc	agtttacc	aaaagaatgc	ccctgtcag	caggaagcag	ctaagaccag	420
tcattgtccc	atattctcat	ggcagttaga	tacacctctt	cagagagggg	aaataatatg	480
ggagtgtctag	gaagggaaga	acatggctgg	ctagggctcc	ataccctggc	tagtcctggc	540
tagggctcca	cactcacgga	cctaactgag	aacaggtatt	tctcgcccaa	atgttgcat	600
tcccaagacc	accctggctg	gacattgaga	ggaacacact	gacaggcacc	agcatgctgg	660
tagggcactg	actgacagaa	caatgcagag	tttggctggg	gcagctggag	gacagtctgg	720
gccactgagc	agctgactt	caggggaaaa	ccatctccct	tctgactctc	ccatctgctg	780
gtagctattt	ccactcaata	aaaccttgca	ctcattaaaa	aaaaaaaaaa	aaaaa	835

<210> 30

<211> 553

<212> DNA

<213> Homo sapiens

<400> 30

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tctcctcctc	ctccctgtcc	tgagggtgtt	ggtgtctagc	aagaccctgt	gtcccatgga	120
agaagccatc	aatgagagga	tccaggaggt	cgccggctcc	ctaataatta	gggcaataag	180
cagcattggc	ctggagtgcc	agagcgtcac	ctccagggg	gacctggcta	cttgccccc	240
aggcttcgcc	gtcacaggct	gcacttgtgg	ctccgctgt	ggctcgtggg	atgtgcgcgc	300
cgagaccaca	tgtcactgcc	agtgcgcggg	catggactgg	accggagcgc	gctgctgtcg	360
tgtgcagccc	tgaggctcgc	cgcagtggca	acagcgcggg	cggaggcggc	tccaggctcc	420
gaggggttgcg	ggggagctgg	aaataaacct	ggagatgatg	atgatgatga	tgatggaaaa	480
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	540
aaaaaaaaaa	aaa					553

<210> 31

<211> 1346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (637)..(637)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (850)..(850)

<223> n equals a,t,g, or c

<400> 31

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ccgccccaga	tcttagtcca	ccccaggac	cagctgttcc	agggccctgg	ccctgccagg	180
atgagctgcc	gagcctcagg	ccagccacct	cccaccatcc	gctgggttgct	gaatgggcag	240
ccctgagca	tggtgcccc	agaccacac	cacctcctgc	ctgatgggac	ccttctgctg	300
ctacagcccc	ctgcccgggg	acatgccccc	gatggccagg	ccctgtccac	agacctgggt	360
gtctacacat	gtgaggccag	caaccggctt	ggcacggcag	tcagcagagg	cgctcggtg	420
tctgtggctg	tcttcgggga	ggatttccag	atccagcctc	gggacatggt	ggctgtgggtg	480
ggtgagcagt	ttactctgga	atgtggggcc	ccctggggcc	accagagacc	cacagtctca	540
tggtggaaag	atgggaaacc	cctggccctc	cagcccggaa	ggcacacagt	gtccgggggg	600
tccctgctga	tggcaagagc	agagaagagt	gacgaangga	cctacatgtg	tgtggccacc	660

aacagcgcag	gacacagggg	gagccgcgca	gccccgggttt	ccatccagga	gccccaggac	720
tacacggagc	ctgtggagct	tctggctgtg	cgaattcagc	tggaaaatgt	gacactscgt	780
aacccggatc	ctgcagargg	ccccaaacct	agaccggcgg	tgtggctcar	ctggaargtc	840
agtggccctn	tgcgcctgcc	caatcttaca	cggccttggt	caggaccag	actgccccgg	900
gagggcaggg	agctccgtgg	gcagaggagg	aacacaggat	aaaaatggaa	gttctcaata	960
aaaagaagat	gtattgggaa	agaaaactac	aaactttttac	caaggaatgg	cctgtttcct	1020
catttaaccg	gccctttccc	aattcgccct	aagacttttg	gggtggctct	cttgtaatta	1080
atctgtgttg	gcaaagaatg	tctggaacat	ggacttggcg	gtcagtaacc	tgtaacagag	1140
ctacaactag	gaaaattaga	gtggtagtag	tcacttattt	aagaattcat	tcaggtaaac	1200
agctgcaccc	tctgtacccc	ttaagtggca	aagaagctgt	tatagtcttc	tgaaaattat	1260
cactatgagt	gctataattc	tgaatataat	gtctcttaat	tagaattcat	acaagaacca	1320
aaaaaaaaaa	aaaaaaaaag	gcggcc				1346

<210> 32

<211> 626

<212> DNA

<213> Homo sapiens

<400> 32

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ttgggtgggtg	ttgcttttcc	tttccttttc	cctttgagat	ttttttgttg	ttgtttcctt	120
tttgatattt	actgatatca	ccaggatagt	ttactctcct	tctagctttc	tgettaccgc	180
acactggata	acacacacat	acacacccac	aaaaatgctc	atgaacccaa	tccggagaag	240
gttccagcag	gtccccacc	ctccccctct	cctcctactt	ctcctcttga	cagcggaggac	300
aggaggggga	caaggggaca	cctgggcaga	cccgcgggct	ctccccccac	cccaccccgc	360
ccctcacatc	atactccaat	cataaccttg	tatattacgc	agtcattttg	gttttcgcgg	420
acgcgcctac	ctaagtacca	tttacagaaa	gtgactctgg	ctggtcatta	ttttgtttat	480
ttgttcccta	tgcaaaaaaa	aaatgaaaaa	gaaaaaaggg	ggattccata	aaagattcaa	540
taaaagacaa	aaaaaaagaa	aaaagaaaaa	aatgtataaa	aattaaacaa	gctatgcttc	600
gactcttaaa	aaaaaaaaaa	aaaaaa				626

<210> 33

<211> 1018

<212> DNA

<213> Homo sapiens

<400> 33

ccacgcgtcc	gcggacgcgt	ggctttgaac	cattcaaata	ccacattagg	caagactgtg	60
ataggccctt	tgtcttcaaa	tacaacaggc	ctccactgac	ccatccctca	aagcagaagg	120
accctttgag	gagagtacag	atgggattcc	acagtggggg	gggtggaatg	gaaacctgta	180
ctagaccacc	cagaggttcc	ttctaaccac	ctggtttggt	ggggaactca	cagtaattcc	240
aaatgtacaa	tcagattcta	gggtctgttt	tcggaagaag	caagaattat	cagtggcacc	300
ctccccactg	ccccagtggt	aaaacaatag	acattctgtg	aaatgcaaag	ctattctttg	360
gtttttctag	tagtttatct	cattttaccc	tattcttctc	ttaaggaaaa	ctcaatcttt	420
atcacagtca	attagagcga	tcccaaggca	tgggaccagg	cctgcttgcc	tatgtgtgat	480
ggcaattgga	gatctggatt	tagcactggg	gtctcagcac	cctgcagggt	tctgagacta	540
agtgatctgc	cctccagggt	gcgatcacct	tctgtctcta	ggtacccccca	ctggcaaggc	600
caaggtctcc	tccacgtttt	ttctgcaatt	aataatgtca	tttaaaaaat	gagcaaagcc	660
ttatccgaat	cggatatagc	aactaaagtc	aatacatttt	gcaggaggct	aagtgttaaga	720
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ataaagtctt	taattttgag	caccttacca	aacataacaa	taatccatta	tccttttggc	840
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tacaccatga	tattggtggg	atttatgctg	ttaagtccaa	acctttatct	gtctgttatt	960
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<210> 34

<211> 767

<212> DNA

<213> Homo sapiens

<220>

[illegible]

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<210> 35
<211> 840
<212> DNA
<213> Homo sapiens
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<220>  
<221> misc_feature  
<222> (364)..(364)  
<223> n equals a,t,g, or c
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[illegible]

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<210> 36
<211> 1148
<212> DNA
<213> Homo sapiens
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<220>  
<221> misc_feature  
<222> (820)..(820)  
<223> n equals a,t,g, or c
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<400> 36
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caagttcctt  cttccctttg  gaaattttggc  agctgccttc  accagtgagc  acaaaggccac  180
atttcaaagg  aaactgacaa  attatcccca  gctgccagaa  gaagaaatcc  tcactggacg  240
gcttctctgt  tcctgtggtt  cattatctga  ttgctgtcag  qgatgaaagt  ttcttaagttc  300
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ataggactga tgatcctcct cacctctgcg ttttcagccg gttcaggaca aagtccaatg 360
actgtgctgt gctccataga ctgggttcag gtcacagtgc accccttcat gctaaacaac 420
gatgtgtgtg tacactttca tgaactacac ttgggcctgg gttgcccccc aaaccatggt 480
cagccacacg cctaccagtt cacctaccgt gttactgaat gtggcatcag ggccaaagct 540
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tctaagtttg tgatcccagt gtcattgtgt gcccccaaa agtccccatg gctaccaag 660
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<210> 37

<211> 1367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (15)..(15)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (28)..(28)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (480)..(480)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (796)..(796)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (896)..(896)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1243)..(1243)

<223> n equals a,t,g, or c

<400> 37

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cacgcgtccg tgtttctact ctttgactat tatgaataat gctgctaaga acattaatgt 120
acaagtttct gtgtggacat atgctttcat ttctcttatt ttcattttat tccacctagg 180
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atttttgttt tctttttaag atgaggtctc gctatgttgc ccaggctggt cttgaactcc 300
tggcctcaag tgatcctccc acctcagcat cccaaagcgc tgggattaca ggcattgaggc 360
atgccaccat tacacaccg gccagccacc aaattatttt ccaaagcagc tacaccacct 420
tacattccca ccagcagtgat atgagcatcc catctctcta cacctcraca gtaattttgn 480
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<400> 40
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 aaaaccgatg tgatccttga tcgaaaaaaa aatccagaac cttgggaaac tgtggaccct 180
 actgtacctc aaaagcttat aacaatcaac caacaatgga aaccattga agagttgcaa 240
 aatgtccaaa ggggtgaccaa atgacgagcc ctgcctctt tcttctgaag agtactctat 300
 aaaatctagt ggaacatttt ctggcacaaa mtagattctg gacaccagtg tgcggaaatg 360
 cttctgctac attttttaggg tttgtctaca ttttttgggc tctggataag gaattaaagg 420
 agtgcagcaa taactgcact gttctaaaag tttgtggctt attttcttgt aaatttgaat 480
 attgcatatt gaaatTTTTTg tttatgatct atgaatgttt ttcttaaaat ttacaaagct 540
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 aaaaaaaaaa 608

<210> 41
 <211> 877
 <212> DNA
 <213> Homo sapiens

<400> 41
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 ggtgggctga ggaggcaacg ggaggcagaa gggccagcag gaaggatggg acccaaggct 180
 aggtctggggg gtcagcagca gacatgggtt gaaggggagt gggctcatggg aagggcctgt 240
 gcaggatgga gccagcagag ggatgggaga ggacacaaag ccaggcagaa ggcggtgatg 300
 gcagcagaga ggagcaccca ggggccgccc ctgggccacg agtgtaggcc acccaggggc 360
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<210> 42
 <211> 978
 <212> DNA
 <213> Homo sapiens

<400> 42
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<210> 43
 <211> 999

<212> DNA
<213> Homo sapiens

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<210> 44
<211> 510
<212> DNA
<213> Homo sapiens

<400> 44
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<210> 45
<211> 986
<212> DNA
<213> Homo sapiens

<400> 45
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tagaataaaa cttatgagtg acatctggaa agtaaccatg ctaagatggc aagcacactg 180
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<210> 46
 <211> 747
 <212> DNA
 <213> Homo sapiens

<400> 46
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 ggaatgctgc ccggtctgtc cgctactggt acagagcttt agctaagcaa aatatcagt 660
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 cattaaaaaa aaaaaaaaaa aactcga 747

<210> 47
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 47
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 gacccttgt cctcttttga gggaggggag ctatgctagg actccaacct cagggactcg 180
 ggtggcctgc gctacttctt ttgatactga aaacttttaa ggtgggaggg tggcaaggga 240
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 340

<210> 48
 <211> 567
 <212> DNA
 <213> Homo sapiens

<400> 48
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 aacaattccc ccactcttca gtgaactaag tccctataat aaaggctgag cctgcatctg 540
 ccaaaaaaaaa aaaaaaaaaa aaaaaaa 567

<210> 49
 <211> 1357
 <212> DNA
 <213> Homo sapiens

<400> 49
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 ccccgaaaac caagctagag tgccccacct gctcgccct gccttctcgg atcgatcca 180
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<210> 50

<211> 1075

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (79)..(79)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (604)..(604)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (656)..(656)

<223> n equals a,t,g, or c

<400> 50

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aagaatgccg	tggaccaaca	gattgtggct	ggggtaaacc	aatttcagaa	agtcttgaaa	480
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gatgtttgaa	tgatatataa	caaaccaaag	gatattacag	aatattagat	tcattattac	1020
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<210> 51

<211> 1025
 <212> DNA
 <213> Homo sapiens

<400> 51
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 aaaaaa 1025

<210> 52
 <211> 908
 <212> DNA
 <213> Homo sapiens

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<210> 53
 <211> 1255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1236)..(1237)
 <223> n equals a,t,g, or c

 <220>
 <221> misc_feature
 <222> (1255)..(1255)
 <223> n equals a,t,g, or c

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<210> 54
<211> 1142
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (92)..(92)
<223> n equals a,t,g, or c
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<400>	54						
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gtcagcagtt	tcccaagaac	aagatgtgat	ggcatctgct	gctgaaacct	tgatgaggac		1020
caggccccct	gcaccgctgt	cagcctgagg	aattaaagct	ttggtgctgg	gaaraaaaaa		1080
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaac		1140
tc							1142

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<210> 55
<211> 1923
<212> DNA
<213> Homo sapiens
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<220>
 <221> misc_feature
 <222> (144)..(144)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1910)..(1910)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1912)..(1912)
 <223> n equals a,t,g, or c

<400> 55
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 tggaagagca acagagggct gggnaaagag cttctatata tacctcagga ggaaaggcat 180
 cccagacagt tttgaagttt tcaaagactg gctctgctgt taagaagttg tacttaaagc 240
 ggaggagcta agccacctgc caaaatgtgc aaaggacttg cagctttgcc ccactcatgc 300
 ctggaaaggg ccaaggagat taagatcaag ttgggaattc tctccagaa gccagactca 360
 gttggtgacc ttgtcattcc gtacaatgag aagccagaga aaccagccaa gaccagaaa 420
 acctcgctgg acgaggccct gcagtggcgt gattccctgg acaaactcct gcagaacaac 480
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 ttctggattg cctgtgagga ttacaagaag atcaagtcct ctgccaagat ggctgagaag 600
 gcaaagcaaa tttatgaaga attcattcaa acggaggctc cttaaagggt gaattattgac 660
 cacttcacta aggacatcac aatgaagaac ctggtggaac ctccctgag cagctttgac 720
 atggcccaga aaagaatcca tgccctgatg gaaaaggatt ctctgcctcg ctttgtgcgc 780
 tctgagtttt atcaggagtt aatcaagtag taatttagcc aggctatgaa atcatcctgt 840
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 ccatagtcac caaattctgt tttaaatcaa tgacctaga tcaacaatga agtattttat 1560
 aaatgtattt atgtgtctag actgtgggtc aaatgtttcc attttcaa attttagaat 1620
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 ggtcaagtct aaaatggcta attgtcctat gatgtatata tcatagacta atgacattta 1800
 tcttcaaac accaaattgt ctttagaaaa attaatgtga ttacaggtag aggccttcta 1860
 ggtgagacac ttttaaggta cactgcattt tgcaaaaaaa aaaaaaaan gnaaattttt 1920
 tgg 1923

<210> 56
 <211> 1228
 <212> DNA
 <213> Homo sapiens

<400> 56
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 aattaatata attttgtctt tagtaaaaac aggccttgga cagcacttaa accacagtga 120
 attggcaatt ctactaaacc tactacaatc taaaacaagt gttaatatgg ctgattttgt 180
 ccaagtgttg aacattaagg taaactctga gactcaacag cagctaaata aaataaacct 240
 tcctgctgga attttggaac caggtgaaaa acagacagat ccatcaacac cacaacagga 300

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gtcttcgaaa ccgttgggag gaattcagcc ttcttctcag accatccagc ctaaagtgga 360
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aaaggctcag cagtcaaagc agaaagatgt gctactagaa gagagggaaa atggatcggg 480
acatgaagcg tcattacaac tcaggccact ccagaaccta gcactccggg gtcgggtaag 540
tgtgcagata ccagaccact aacacagctg cattacatk gttactcagt gttgctgact 600
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tccatgtgag atagaactca ttrtgaatga taaagatatt tctaaggtaa acctatgggt 780
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gagaagctga agtggaaga ttgcctgaac ccaggaattc agtacctatc tgtgcaacat 1020
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gtgattccag ctacttggaa ggctgaggtg ggtggatcac ttgagccag gaggtcaagg 1140
ctgcagtga ctgtgatcac tccactgcac tccagtctgg gtgacagagt gagaccgtgt 1200
caccaaaaaa aaaaaaaaaa aactcgta 1228

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<210> 57

<211> 1038

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2)..(2)

<223> n equals a,t,g, or c

<400> 57

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gcatcataga aaaaatgctc ttactgttga aaacattatt tgttacattt tggtaacta 120
atctttcaat aacttttagt aactataatg ttaagttgta ccagtggcag tcttatatag 180
taaattggcag ctgacagcat gaaaataaca tatctaatat tttgtgacta tcttattagg 240
aaaatcagag aatttcaaaa cettgttagt ttttaggta tagtcacatt ttataaatgt 300
gcggtatatt tatacatgat ttgacgtttg tgwaaatatt ttccctggac ttttatttta 360
gatgagatct acagtgtagg caaacttata taatctgtca actccattag tgtcatagtc 420
agactcatcc catgctaaa attatagttg tkaaaatacg cttttgtaaa tagttgtgtt 480
aggtcattat caccaagctc tcaaggkatt acattataaa aaccttggkt tttattcttg 540
tgaatamccg ttttttccat gcaaagttaa aattcttcag cctttaattt ttttattaat 600
atataaggat gtgatgagta tgactacaaa acaggaaaaa ataaacagat ttcgtttgtg 660
gcttttgcta aattgttacc tgacaaaatc tttagcagtt cttcattttc gtttttagat 720
gaagatactt agtttttagt caggggctgg gcgcgatagc tgatgcctgt ggtccagtg 780
ctttgcgggg ccgaggcagg tggatcactt aaggtcagga gtttgagacc agcctgccc 840
acatggtgaa acgttgtctc tactaaaaat acaaaaatta gacaggcgtg gtggcacaca 900
tctgtaattc cagctactca ggaggctaac acaggaaaat tccttgaacc tgggaggcag 960
aggttgagat gagccattgc actccagcct gggcaacaca gtgagactct tgtctcaaaa 1020
aaaaaaaaaa aaactcga 1038

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<210> 58

<211> 990

<212> DNA

<213> Homo sapiens

<400> 58

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gaattcggca cgagaatttt gaaagaagtt ctactgtgga taaaaagcta tgaaacagca 60
tcacatacta cagagaaacc ttttgggaaa ggaagagcca atagatatgg caaacatcat 120
tgttgtctta ttttcagaaa ttgcgcagc taccccagcc ttcagcagcc accaccctga 180
tccgtcagca gccagcaaca taaaagcaag gttctctacc agccaaaaga agaaaactct 240
ctgaaggctc aggtgtttta taaaattttt ttagcaataa aatatttttt aaagtatgta 300
tattttttag atgtaatgct actgcatagt taatcagcya tattatagtg aaaatagaac 360
ttttgtatgt actgggagac caaaacattc atgtgaataa cttttttgca atttttaact 420
tatttcagtg atctgggccc aaacctgaaa tatccgagcg gtatatttct ctctggcccc 480

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aagttttgtg atattgttgt cctacatttt awttgtacat atgktataaa ctccacactg 540
tacttcygtk atttcattta agctgtcagt tatcttttta gagattttaga taaacagaga 600
catgttttta ttctttccat tgctgcttat tcctctgcgt aggttcatat ttcagkcctt 660
ttacttcaag agctctaaaa aaaatgtctt atagtgcagc tctattggta atcgattcct 720
ttagcttttg gatgtttaa aagtgtcttc ttaccttgcc ctttaattttt gaatgatatt 780
ttgctgagta atattctgag ttggtgattt tctctgacac tgctttttttt tttttttttt 840
tttttttttg tcatttgaca cagaatcttr cagtgaattg agatcgtgcc actgaactcc 900
agcttggggg acagagcaag actccatctc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaaactcga 990

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<210> 59

<211> 1767

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(26)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (68)..(68)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (80)..(80)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (107)..(107)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1762)..(1762)

<223> n equals a,t,g, or c

<400> 59

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aagaaaaaaaa taggcctggt tgccanatta aggtccctcg ggctatttta aaccggattt 60
ggataccnag gtctttccan aggcctgatt ttgccccccg taaccnntaa aaaaaaaaaa 120
agatttccaa aatgccgttt tcagaacctg ggttttaata gcagtattga atttgaagc 180
ttagtagttg cagaaattga acactagggtg gcactcagtt atcttaacag gggaagtact 240
gatacaattg ttgacttttc ttttactatg tgtaagaaat accccaaaca tgaaaagatt 300
gttttgatca tatgcatgta tgtagaatat ttttgagag cagaaagatt atgttagaag 360
tgtgattttt attttcagaa gtcataataca tgtaagctac aattttgagt gctttataaa 420
cacttaagat atatatataa attttaattt catagcaact tgtaaaaaat aaaatacttg 480
ttgaaaagcc tttttcaaca tatccctaag ctaagggaag aggaaggaat aacaactcag 540
tgaaaagatg gtctccagtt tctgaatgaa aaagctacag ctgagaaata aaataaaatg 600
tcagtctgca gaatatgtta tacccttatt ttgtgttaag gatataattt attatgtgaa 660
tggttttggt tttgtttttt gtttttgatt tttgtctgta ttgggaatta gctttactgg 720
taacttcctt atttagtttt tagtggtcaa ctctaataaa atgaaactag ggcttagacta 780
gttagccctc actagccaaa ctgaaactct atgcaacatt aaaagaagag atccatcatg 840
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aacattaagt tgaagaatgg aaattaagag tacgtattca tgggtttatat ttcttattct 1080
atggagttcg tgaacacatc taggtggaat gcactctgaga ctaagggtcg gtttttaate 1140
ctcataagaa accagccttg aagaattaac aattctcttc attggtattc taaacctcct 1200

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aagatattta	ggcttctgta	cataaaagtg	tttttgctaa	atttacagta	tatatagatc	1260
ctttcatatt	attttactaa	gaatgtttga	actttgcata	tttgatatag	ttcctggtag	1320
gaatagcaca	gctcaaacat	tagtttttct	acttacctcc	tctaacacgt	ggtttgtctg	1380
gagagtttct	aaaaattcag	ctataacccc	agttcatgta	tttactgggtg	attgttcttg	1440
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attaaaatag	ttggggtaaa	gttgtagctt	atatgcaata	ctacttggag	gaattcttct	1560
actaatttgt	atttaatgtg	gaaattgtat	agtttcattg	atttaatcat	aaataatgga	1620
aatgggtctcc	aagaagttttt	atttttcatt	tttttgctta	tacactctga	ttcctataat	1680
acagtgtcta	aagctatgca	cagaaaaataa	aatgtttgaa	atccaaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	anqqqqq				1767

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<210> 60
<211> 1625
<212> DNA
<213> Homo sapiens
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<220>  
<221> misc_feature  
<222> (1336)..(1336)  
<223> n equals a,t,g, or c
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gggagaacca	gtcctccaag	ggagagtttt	gtcagcccgc	tgaatttgtg	cttcagtgac		180
aaaaaggaa	tcactcaa	tgttctgagc	tttaggacaa	aagaatatgcc	tgtcatctctc		240
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ttgtcatttac	tgtcatctcg	tgtctaagtgc	cactgtctac	ttctgatccc	caaacacagtg		360
gsctctagcc	tttgacctct	gcctaactcc	aagtagagtg	ttcttttttat	aatccttcat		420
gttcataata	cacttttagca	tttacagagt	gttttcacat	gettatttgt	gaggtatttat		480
cacagtgcta	raaataagga	aaggctgaga	cctacacaaa	tgacagtggt	gtacgtgagc		540
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tctgcaaggga	caggtagcct	gctggggggc	catggtggca	ctgggggtata	aaatctcttaa		660
actgctaata	tcctcttttct	cttctaggct	gagaacatct	ctaaggamct	ctacatagaa		720
rtatatccag	ggamctatct	tgtcactgtg	ggctcaaattg	acttaaccaa	gaaamtcatg		780
tggtagcagt	tgattctctga	caaagcgtgg	amctggctcyt	ccctgtgtga	tgttgaccat		840
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aatagctata	cattaaacct	gttttttagtg	ctgactgggt	cagccttcgc	ggaactggag		960
tctgtctctt	tcagtgcttt	tttgttttgt	tgggttggttg	tttttttgaga	cagcctgggc		1020
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gagagaattt	tattaaatgt	gacgaactgc	ccccccccc	ccccagcag	gagagcagca		1140
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tctttgtcac	atgcctttct	atgccttcca	tggctgggtc	tcagggagcc	ggaagcagct		1260
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ggaacttcat	ttcccaaagg	cagcgccagt	ggctcctgag	caatgagaat	gtcctgtcct		1560
gtccaccata	ttcaaggcca	gcagaagagc	ccgattaaac	cctgcgcagca	cctggcctcg		1620
tqccc							1625

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<210> 61
<211> 1588
<212> DNA
<213> Homo sapiens
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<400>	61						
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tcccccaaat	ctctctctgc	aaccagagct	ctggggcacag	attctggttg	ctcccgtctg		180
gcctctcttq	gcytctctc	acacctgga	atgggqctctc	taaatcccg	ccgaaactc		240

tgacttgtgc	caacaatagg	atgacccaag	ggagaggaaa	cctatcctcc	tcaccagaag	300
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gggatagttc	tagcccttct	gcctgtgtag	acagaagcta	aaccaccagt	ctctctcgga	420
ggaagctgag	acaacatact	ctgtccatac	ataagcaggc	agggagggcc	atgccaccta	480
cccttggcta	aacagggaca	gtgaacacat	tttggttcct	atcccagtg	gtaagaggca	540
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gattctaaca	gctgttagtt	ttataattaa	aaaagaaaga	aaaaagaact	ttgtcctgaa	1500
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<210> 62

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (508)..(508)

<223> n equals a,t,g, or c

<400> 62

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tattgataca	atttcacctc	taaaatggat	ttgaagaaat	gcaactttat	atcaaaaaat	180
gtcatctgat	ttccttttgt	tcttttttaa	attatgtaat	cagatgattt	tatgtttttt	240
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atgtttcttt	ttgtgtttca	gtgtttcaaa	tacaatttgt	atttaaggat	tttaaaatac	360
caaactgtaa	ctgagtacag	tggatcgttt	tctgttagga	tgtaaatatt	atacaatgaa	420
atctataaag	tgttgtcaat	ttgattattg	acacatataa	catgtttaca	aataaactgt	480
ggtattgatc	aaaaaaaaaa	aaaaaaancc	cggggggggc	cccgaaccc	aatccc	536

<210> 63

<211> 660

<212> DNA

<213> Homo sapiens

<400> 63

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ctttggaaaa	aatgaagaaa	ttcctaggaa	gcaaaggagg	aagatctacc	acagaagggt	180
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aagaagggac	actgtttggt	aaagggcata	accatgtaca	acaaagctgt	gtggctgcct	420
gagccctgca	ctacctgcct	ctgctcagat	ggaagagttc	tttgtgatga	aacctgtgct	480
catccccaga	ggtgccccca	aacagttata	cctgaagggg	aatgctgccc	ggtctgtccg	540
ctactggtac	agagctttag	ctaagcaaaa	tatcagtgtg	tgattaatct	ttactttcca	600

tttgtttttg ttactaatTT tagattaaaa ttatgataca ttaaaaaaaaa aaaaaaaaaa 660

<210> 64
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<400> 64
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 gcgcgggacc aacgtcaccg ctgccgtcca ggatgccggc ctggcccacg aaggcgaggg 180
 cgaggaggag accgaaaaca acgacagcga gaccgcggag aactacgctc cgtctgaaac 240
 cgaggatgtt tcaaatagga atstcgtcaa agaagtagaa ttcggaatgt gcaccgttac 300
 atgtggtatt ggtgttagag aagttatatt aacaaatgga tgccctggtg gtgaatccaa 360
 gtgtgttgta cgggtagaag aatgcccggtg gaccaacaga ttgtggctgg ggtaaaccaa 420
 tttcagaaag tcttgaaagt gttagattgg catgtattca cacatctccc ttaaatecgtt 480
 tcaaataatg gtggaacttc taagacaaga ccacaatcca ttatacttgt aaatgattca 540
 gcaatcctag aagtagcga ggaagtcac cccttggctt tcgagtgtga cactcggat 600
 aataatgaaa tartagcaac tattaaattc acagtctata cgagcagtga attgcagatg 660
 agaagatcaa gcctaccagc cactgatgcc agccctaatt tttgtgctga ccataggagt 720
 cattatctgt gtatttataa tttcttatt gatcttcata atcataaatt gggcagcagt 780
 caaggcttct tgggggggcaa aagcctctac acctgaggta caatccgagc agagtctctgt 840
 gagatacaaa gattcaactt ctcttgacca attaccaaca gaaatgcctg gtgaagatga 900
 tgctttaagt gaatggaatg aatgatgttt gaatgatata taacaaacca aaggatatta 960
 cagaatatta gattcattat tacaaaaata aaatacacat tgaaatactt taaaaaaaaa 1020
 aaaaaaaaaa aaactcga 1038

<210> 65
 <211> 1009
 <212> DNA
 <213> Homo sapiens

<400> 65
 aggttgacgt gaagctggag atggcgctac tgcagtccag cctgggcgac agggcaagac 60
 tccacctcaa aaaaatatat aaaataaagt gggattcatt caagagcttg ggacatgatt 120
 aactaktgtc aaggagatat gtymtgccat tattatctc cttacttggt agggtaacaac 180
 agaaacagaa caacaagggtg acagcctttt gctcaagtca aaaagaaaat aagtcacctca 240
 tcttagttta aagttgttca ttcagtagta cagacttgca tttgaagact tattcttgat 300
 cttctgtagc tttgacagca aggacatcac tacaatgggt acagaaataa cacattctga 360
 tccttgctga gatccttgta tgggcctatc ttaaacttag cctattgtct gtcttaccct 420
 ttgattttta taagtrgaaa acaggaaaag gctaaccaag caagaggaag gcatagattc 480
 atcttccttt caatcttgac tatagtttaa agagaatacc atgatcttct tgttctattc 540
 ttggcttact tgaatattta gccaggctct tgcattctat tcagtcagaa aacagacaca 600
 gattcagata actcaaagga tgttacttgc ttgagtaatc cttgggcctc gctttaactt 660
 tgtagatcca ggaacagaat taagcagaca gttcgggtcta cactgccaaa tttcttaggg 720
 aaaaagaggg caagtcagaa ggaggaagtt ggcatttggc tcaaagacc aaattattta 780
 aggtctctac acttcacttt gcaccaagta gaccaagaa tgattataat tcagctacgt 840
 gtggtggtgc agatcagtag tcttagctat tcaggaggct gaggcgggtg gattggttga 900
 gcccgaggat ttgaggctgc aatgggctat gatctcrgmc tgcgctttag cctgggcaac 960
 agaacaagac cctgtctcaa attaaaaaaaa aaaaaaaaaa aaaactcga 1009

<210> 66
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any amino acid

<400> 66

Met Ser Val Phe Leu Leu Ile Thr Leu Ala Leu Ala Ile Leu Tyr Ile
 1 5 10 15

Ile Arg Ser Ile Val Phe Ser Leu Ala Leu Xaa Gln Asn Gly Ser Leu
 20 25 30

Gln Gly

<210> 67

<211> 32

<212> PRT

<213> Homo sapiens

<400> 67

Met Arg Asn Lys Glu Ser Leu Cys Lys Val Val Leu Lys Ala Leu Tyr
 1 5 10 15

Ala Asn Leu Leu Ile Cys Val Ser Ala Ser Ala Ile Leu Val Gln Cys
 20 25 30

<210> 68

<211> 206

<212> PRT

<213> Homo sapiens

<400> 68

Met Gly Ala Glu Trp Glu Leu Gly Ala Glu Ala Gly Gly Ser Leu Leu
 1 5 10 15

Leu Cys Ala Ala Leu Leu Ala Ala Gly Cys Ala Leu Gly Leu Arg Leu
 20 25 30

Gly Arg Gly Gln Gly Ala Ala Asp Arg Gly Ala Leu Ile Trp Leu Cys
 35 40 45

Tyr Asp Ala Leu Val His Phe Ala Leu Glu Gly Pro Phe Val Tyr Leu
 50 55 60

Ser Leu Val Gly Asn Val Ala Asn Ser Asp Gly Leu Ile Ala Ser Leu
 65 70 75 80

Trp Lys Glu Tyr Gly Lys Ala Asp Ala Arg Trp Val Tyr Phe Asp Pro
 85 90 95

Thr Ile Val Ser Val Glu Ile Leu Thr Val Ala Leu Asp Gly Ser Leu
 100 105 110

Ala Leu Phe Leu Ile Tyr Ala Ile Val Lys Glu Lys Tyr Tyr Arg His
 115 120 125

Phe Leu Gln Ile Thr Leu Cys Val Cys Glu Leu Tyr Gly Cys Trp Met
 130 135 140

Thr Phe Leu Pro Glu Trp Leu Thr Arg Ser Pro Asn Leu Asn Thr Ser
145 150 155 160

Asn Trp Leu Tyr Cys Trp Leu Tyr Leu Phe Phe Phe Asn Gly Val Trp
165 170 175

Val Leu Ile Pro Gly Leu Leu Leu Trp Gln Ser Trp Leu Glu Leu Lys
180 185 190

Lys Met His Gln Lys Glu Thr Ser Ser Val Lys Lys Phe Gln
195 200 205

<210> 69

<211> 215

<212> PRT

<213> Homo sapiens

<400> 69

Met Val Ala Asp Trp Leu Gln Gln Ser Tyr Gln Ala Val Lys Glu Lys
1 5 10 15

Ser Ser Glu Ala Leu Glu Phe Met Lys Arg Asp Leu Thr Glu Phe Thr
20 25 30

Gln Val Val Gln His Asp Thr Ala Cys Thr Ile Ala Ala Thr Ala Ser
35 40 45

Val Val Lys Glu Lys Leu Ala Ile Ala Ala Cys Ser Arg Gly Ala Cys
50 55 60

Phe Leu Cys Pro Phe Ser Ile Gln Thr Glu Gly Ser Ser Gly Ala Thr
65 70 75 80

Glu Lys Met Lys Lys Gly Leu Ser Asp Phe Leu Gly Val Ile Ser Asp
85 90 95

Thr Phe Ala Pro Ser Pro Asp Lys Thr Ile Asp Cys Asp Val Ile Thr
100 105 110

Leu Met Gly Thr Pro Ser Gly Thr Ala Glu Pro Tyr Asp Gly Thr Lys
115 120 125

Ala Arg Leu Tyr Ser Leu Gln Ser Asp Pro Ala Thr Tyr Cys Asn Glu
130 135 140

Pro Asp Gly Pro Pro Glu Leu Phe Asp Ala Trp Leu Ser Gln Phe Cys
145 150 155 160

Leu Glu Glu Lys Lys Gly Glu Ile Ser Glu Leu Leu Val Gly Ser Pro
165 170 175

Ser Ile Arg Ala Leu Tyr Thr Lys Met Val Pro Ala Ala Val Ser His
180 185 190

Ser Glu Phe Trp His Arg Tyr Phe Tyr Lys Val His Gln Leu Glu Gln
195 200 205

Glu Gln Ala Arg Arg Thr Pro

210

215

<210> 70
<211> 33
<212> PRT
<213> Homo sapiens

<400> 70
Met Arg Leu Leu Leu Pro Ser Leu Leu Gly Gly Leu Ser Val Leu Thr
1 5 10 15
Thr Ser Leu Gly Ser Val Ala Gly Leu Arg Asn Ser Arg Ala Ala Trp
20 25 30

Trp

<210> 71
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (92)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (94)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (126)
<223> Xaa equals any amino acid

<400> 71
Met Gly Thr Ala Ser Thr Gly Pro Trp Ala Ile Pro Thr Trp Ser Pro
1 5 10 15
Cys Trp Gly Arg Ala Gly Arg Ser Ser Ser Ser Lys Asn Ala Tyr Cys
20 25 30
Arg Pro Gln Met Thr Phe Trp Leu Leu Ala Leu Arg Ser Thr Ser Ser
35 40 45
Glu Thr Ser Ser Met Leu Leu Gln Cys Gly Gly Thr Gly Arg Glu Gly
50 55 60
Trp Leu Ser Val Gln Pro Ala Glu Xaa Val Ser Thr Thr Arg Val Pro
65 70 75 80

Arg Asp His Ile Val Gln Phe Leu Arg Leu Leu Xaa Ser Xaa Phe Ile
85 90 95

Arg Asn Arg Ala Asp Phe Phe Arg His Phe Ile Asp Glu Glu Met Asp
100 105 110

Ile Lys Asp Phe Cys Thr His Glu Val Glu Pro Met Ala Xaa Glu Cys
115 120 125

Asp His Ile Gln Ile Thr Ala Leu Ser Gln Ala Leu Ser Ile Ala Leu
130 135 140

Gln Val Glu Tyr Val Asp Glu Met Asp Thr Ala Leu Asn His His Val
145 150 155 160

Phe Pro Glu Ala Ala Thr Pro Ser Val Tyr Leu Leu Tyr Lys Thr Ser
165 170 175

His Tyr Asn Ile Leu Tyr Ala Ala Asp Lys His
180 185

<210> 72
<211> 48
<212> PRT
<213> Homo sapiens

<400> 72
Met Phe Ala Pro Cys Phe Val Asn Leu Ala Leu Phe Tyr Leu Tyr Ile
1 5 10 15

Asn Ser Cys Asn Leu Leu Asn Leu Thr Ser Ile Asp Pro Phe Gln Gln
20 25 30

Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser
35 40 45

<210> 73
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (79)
<223> Xaa equals any amino acid

<400> 73
Met Gln Cys Ile Arg Trp Thr Val Leu Phe Leu Phe Ile Leu Trp Val
1 5 10 15

Leu Val Phe Val Phe Phe Phe Ala Phe Thr Val Arg Leu Gln Met Ile
20 25 30

Val Leu Ile Thr Tyr Ile Ile Asn Lys Cys Gly Pro Ile Ile Tyr Thr
 35 40 45
 Glu Ile Thr Leu Gly Tyr Phe Cys Ile Ile Leu Ser Tyr Cys Leu His
 50 55 60
 Ser Ile Asn Phe Ser Arg Asp Asn Cys Leu Cys Val Thr Gly Xaa Lys
 65 70 75 80
 Cys Arg Ile Thr Ser Phe Ile Ile Trp Lys Asn
 85 90

<210> 74
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 74
 Met Val Phe Leu Asn Phe Leu Ile Tyr Leu Leu Leu Val Phe Phe Tyr
 1 5 10 15
 Ile Ser Leu Phe His Ser Arg Asp Asn Phe Ile Leu
 20 25

<210> 75
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 75
 Met Ala Arg His Val Pro Leu Tyr Arg Ala Leu Leu Glu Leu Leu Arg
 1 5 10 15
 Ala Ile Ala Ser Cys Ala Ala Met Val Pro Leu Leu Leu Pro Leu Ser
 20 25 30
 Thr Glu Asn Gly Glu Glu Glu Glu Gln Ser Glu Cys Gln Thr Ser
 35 40 45
 Val Gly Thr Leu Leu Ala Lys Met Lys Thr Cys Val Asp Thr Tyr Thr
 50 55 60
 Asn Arg Leu Arg Tyr Tyr Ile Gln Cys Ser Phe Leu Leu Ser Leu Pro
 65 70 75 80
 Leu Thr Met Phe Leu Lys
 85

<210> 76
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 76
 Met Leu Leu Ile Leu Val Thr Pro Val Pro Thr Arg Leu Arg Ala Arg

1 5 10 15
 Pro Arg Leu Asp Leu Leu Val Leu Thr Pro Arg Ala Cys Pro Ala Ser
 20 25 30
 Arg Val Arg Gly Arg Leu Ser Cys Arg Arg Thr Leu Pro Arg Met Gly
 35 40 45
 Pro Ala Ser Cys Ser Ala Leu Ala Thr Asn Ala Ala Pro Gly Pro Pro
 50 55 60
 His Pro Ala Gly Pro Ala Phe Ser Ser Ile Ser His Met Ala Thr Thr
 65 70 75 80
 Pro Gln Ser Leu Glu Pro Pro Ala Gly Asn Ser Val Pro Gln Ser Leu
 85 90 95
 Met Ser Ile Leu Asp Pro Ala Ser Ser Trp Val Pro Lys Ser Ala Ser
 100 105 110
 Pro Pro Arg Val Ala Cys Pro Cys Pro Pro Ala Leu
 115 120

<210> 77
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 77
 Met His Leu Phe Leu Phe Ile Trp Ala Phe Gly Leu Pro Leu His Ile
 1 5 10 15
 Ser Arg Asp Leu Ala Phe Phe Phe Leu Leu Tyr Phe Leu Phe Phe Tyr
 20 25 30
 Leu Leu Cys Val Leu Leu
 35

<210> 78
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Asn Ala Ser Cys Ser Leu Ala His Phe Glu His Ser Gly Met Ser
 1 5 10 15
 Val Leu Leu Val His Leu Phe Ile Ile Val Ser Thr Val Pro Ser Cys
 20 25 30
 Phe Lys Lys Tyr Met Ala Phe Ile Ile Tyr Pro Ala Phe Ser Cys His
 35 40 45
 Phe Asn Lys Ser Met Cys Leu Ile Gln Leu Leu His Ser Ser Gln Lys
 50 55 60

<210> 79
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any amino acid

<400> 79
 Met Gly Ala Ala Lys Val Trp Gly Glu Val Gly Arg Trp Leu Val Ile
 1 5 10 15
 Ala Leu Ile Gln Leu Ala Lys Ala Val Leu Arg Met Leu Leu Leu Leu
 20 25 30
 Trp Phe Lys Ala Gly Leu Gln Thr Ser Pro Pro Ile Val Pro Leu Asp
 35 40 45
 Arg Glu Thr Arg His Ser Pro Arg Met Val Thr Thr Ala Xaa Xaa Thr
 50 55 60
 Met Ser Ser Pro Thr Trp Gly Ser Gly Gln Thr Gly Trp Cys Glu Pro
 65 70 75 80
 Ser Arg Thr Arg Arg Pro Cys Thr Pro Gly Thr Gly Glu Leu Pro Ser
 85 90 95
 Ser Gly Arg Asp Gly Ser Ser Ser Ile Thr Arg Ser
 100 105

<210> 80
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Asp Ile Ala Ala Pro Val Leu Phe Ala Leu Arg Leu Gln Phe Leu
 1 5 10 15
 Phe Ile Leu Leu Pro Met His Phe Glu Ile Ser Leu Leu Cys Lys Val
 20 25 30
 Ser Thr Glu Thr Ser Gly Arg Glu Asp Lys Met
 35 40

<210> 81

<211> 49
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Ala Thr Asp Glu Arg Val Leu Arg Lys Ala His Ser Thr Pro Ala
 1 5 10 15
 Leu Phe Gln Leu Val Leu Asn Leu Val Gln Cys Pro Ser Pro Ala Ser
 20 25 30
 Gly Val Lys Ser His Leu Leu Pro His Lys Glu Arg His Lys Ser Met
 35 40 45

Glu

<210> 82
 <211> 29
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any amino acid

<400> 82
 Met Gly Val Leu His Leu Leu Ala Xaa Phe Leu Leu Val Xaa Gly Arg
 1 5 10 15
 Val Pro Gly Leu Gly Gly Val Pro Gly Gly Gly Glu Gly
 20 25

<210> 83
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 83
 Met Ser Tyr Lys Trp Asn Ser Arg Val Cys Phe Leu Trp Ser Arg Thr
 1 5 10 15
 Phe His Leu Met Leu Leu Arg Leu Ile Cys Leu Val Ala Tyr Ile Ser
 20 25 30
 Thr Glu Val Ile Ser Phe Ile Ala Glu
 35 40

<210> 84

<211> 89
<212> PRT
<213> Homo sapiens

<400> 84
Met Leu Leu Leu Val Tyr Phe Leu Leu Met Ser Val Ile Phe Gly Thr
1 5 10 15
Lys Phe Phe Pro Leu Ile Ile His Met Phe Asn Pro Cys Ile Leu Asn
20 25 30
Leu Ile Lys Leu Val Phe Ser Leu Met Pro Gly Ser His Gln Thr Pro
35 40 45
Asn Val Gln Ala Thr Arg Ala Ser Asp Asp Gly Ser Ala Leu Leu Gly
50 55 60
Thr Pro Ser Arg Pro Leu Gly Ser Ile Arg Gln Gln Phe Thr Pro Lys
65 70 75 80
Glu Cys Pro Leu Ser Ala Gly Ser Ser
85

<210> 85
<211> 108
<212> PRT
<213> Homo sapiens

<400> 85
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
1 5 10 15
Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
20 25 30
Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
35 40 45
Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
50 55 60
Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
65 70 75 80
Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
85 90 95
Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
100 105

<210> 86
<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (203)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (267)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (274)
<223> Xaa equals any amino acid

<400> 86

Met	Gly	Ser	Gly	Gly	Asp	Ser	Leu	Leu	Gly	Gly	Arg	Gly	Ser	Leu	Pro
1				5					10					15	
Leu	Leu	Leu	Leu	Leu	Ile	Met	Gly	Gly	Met	Ala	Gln	Asp	Ser	Pro	Pro
			20					25					30		
Gln	Ile	Leu	Val	His	Pro	Gln	Asp	Gln	Leu	Phe	Gln	Gly	Pro	Gly	Pro
		35					40					45			
Ala	Arg	Met	Ser	Cys	Arg	Ala	Ser	Gly	Gln	Pro	Pro	Pro	Thr	Ile	Arg
	50					55					60				
Trp	Leu	Leu	Asn	Gly	Gln	Pro	Leu	Ser	Met	Val	Pro	Pro	Asp	Pro	His
65					70					75					80
His	Leu	Leu	Pro	Asp	Gly	Thr	Leu	Leu	Leu	Leu	Gln	Pro	Pro	Ala	Arg
				85					90					95	
Gly	His	Ala	His	Asp	Gly	Gln	Ala	Leu	Ser	Thr	Asp	Leu	Gly	Val	Tyr
			100					105					110		
Thr	Cys	Glu	Ala	Ser	Asn	Arg	Leu	Gly	Thr	Ala	Val	Ser	Arg	Gly	Ala
		115					120						125		
Arg	Leu	Ser	Val	Ala	Val	Leu	Arg	Glu	Asp	Phe	Gln	Ile	Gln	Pro	Arg
	130					135					140				
Asp	Met	Val	Ala	Val	Val	Gly	Glu	Gln	Phe	Thr	Leu	Glu	Cys	Gly	Pro
145					150					155					160
Pro	Trp	Gly	His	Pro	Glu	Pro	Thr	Val	Ser	Trp	Trp	Lys	Asp	Gly	Lys
				165					170					175	
Pro	Leu	Ala	Leu	Gln	Pro	Gly	Arg	His	Thr	Val	Ser	Gly	Gly	Ser	Leu
			180					185					190		
Leu	Met	Ala	Arg	Ala	Glu	Lys	Ser	Asp	Glu	Xaa	Thr	Tyr	Met	Cys	Val
		195					200						205		
Ala	Thr	Asn	Ser	Ala	Gly	His	Arg	Glu	Ser	Arg	Ala	Ala	Arg	Val	Ser
		210				215					220				
Ile	Gln	Glu	Pro	Gln	Asp	Tyr	Thr	Glu	Pro	Val	Glu	Leu	Leu	Ala	Val
225					230					235					240
Arg	Ile	Gln	Leu	Glu	Asn	Val	Thr	Leu	Leu	Asn	Pro	Asp	Pro	Ala	Glu
				245					250					255	

Gly Pro Lys Pro Arg Pro Ala Val Trp Leu Xaa Trp Lys Val Ser Gly
 260 265 270

Pro Xaa Arg Leu Pro Asn Leu Thr Arg Pro Cys Ser Gly Pro Arg Leu
 275 280 285

Pro Arg Glu Ala Arg Glu Leu Arg Gly Gln Arg Arg Asn Thr Gly
 290 295 300

<210> 87
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 87
 Met Leu Met Asn Pro Ile Arg Arg Arg Phe Gln Gln Val Pro His Pro
 1 5 10 15

Pro Leu Leu Leu Leu Leu Leu Leu Leu Thr Ala Arg Thr Gly Gly Gly
 20 25 30

Gln Gly Asp Thr Trp Ala Asp Pro Pro Ala Leu Pro Pro Pro His Pro
 35 40 45

Ala Pro His Ile Ile Leu Gln Ser
 50 55

<210> 88
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 88
 Met Gln Ser Tyr Ser Leu Val Phe Leu Val Val Tyr Leu Ile Leu Pro
 1 5 10 15

Tyr Ser Ser Phe Lys Glu Asn Ser Ile Phe Ile Thr Val Asn
 20 25 30

<210> 89
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any amino acid

<400> 89
 Met Ala Leu Gly Ala Leu Ser Leu Asn Ala Ala Leu Ala Pro Trp Ala
 1 5 10 15
 Ser Ser Pro Gly Pro Asp Leu Pro Ile Leu Lys Glu Lys Gln Pro Leu
 20 25 30
 Ser Ser Tyr Pro Xaa Ser Gly Gly Ala Arg Phe Arg Leu Pro Thr Thr
 35 40 45
 Ser Leu Gly Thr Arg Glu Ser Ser Ser Phe Thr Thr Cys Xaa Val Xaa
 50 55 60
 Gly Ala Gly Leu
 65

<210> 90
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 90
 Met Ile Thr Ser His Leu Arg Glu Ala Lys Leu Lys Val His Leu Gln
 1 5 10 15
 Glu Glu Leu Trp Pro Asp Ile Ala Asn
 20 25

<210> 91
 <211> 212
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (180)
 <223> Xaa equals any amino acid

<400> 91
 Met Lys Val Phe Lys Phe Ile Gly Leu Met Ile Leu Leu Thr Ser Ala
 1 5 10 15
 Phe Ser Ala Gly Ser Gly Gln Ser Pro Met Thr Val Leu Cys Ser Ile
 20 25 30
 Asp Trp Phe Met Val Thr Val His Pro Phe Met Leu Asn Asn Asp Val
 35 40 45
 Cys Val His Phe His Glu Leu His Leu Gly Leu Gly Cys Pro Pro Asn
 50 55 60
 His Val Gln Pro His Ala Tyr Gln Phe Thr Tyr Arg Val Thr Glu Cys

<400> 92
Met Asn Asn Ala Ala Lys Asn Ile Asn Val Gln Val Ser Val Trp Thr
1 5 10 15

Leu Leu Gly Cys Met Val Val Leu Cys Leu Thr Val
35 40

```
<400> 93
Met Ser Ser Asn Thr Tyr Ile Val Leu Val Cys Gln Ala Leu Leu Ile
   1                   5             10           15
```

Phe Leu Asn Leu Cys His His Tyr

35

40

<210> 94
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 94
 Met Gln Leu Ser Val Cys Val Ile Thr Thr Ser Leu Leu Phe Asn Ser
 1 5 10 15
 Ile Thr Leu Tyr Phe Ser Lys Met Pro Arg Ser Pro Gly Ser Tyr Ala
 20 25 30
 Asp Leu Gln Arg Phe Tyr Phe Leu Ala Leu Glu Ser Ala Glu Ile Arg
 35 40 45
 Arg His Arg Ala Gln Arg Ser Ser Leu Gly Thr Arg Ile Ala Phe Ala
 50 55 60
 Leu Ala Gly Tyr Val Tyr Thr Asp Glu Tyr Lys Met Phe Phe Ser Leu
 65 70 75 80
 Gly Phe Leu Leu Leu Phe Ser Pro Pro Ser His Leu Pro Phe Ser Pro
 85 90 95
 Thr Pro Pro Pro Lys Lys Ala Thr Ser Ser Phe Arg Gly Thr Ile Ile
 100 105 110
 Phe Phe Asn
 115

<210> 95
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 95
 Met Ser Phe Phe Gln Leu Leu Met Lys Arg Lys Glu Leu Ile Pro Leu
 1 5 10 15
 Val Val Phe Met Thr Val Ala Ala Gly Gly Ala Ser Ser Phe Ala Val
 20 25 30
 Tyr Ser Leu Trp Lys Thr Asp Val Ile Leu Asp Arg Lys Lys Asn Pro
 35 40 45
 Glu Pro Trp Glu Thr Val Asp Pro Thr Val Pro Gln Lys Leu Ile Thr
 50 55 60
 Ile Asn Gln Gln Trp Lys Pro Ile Glu Glu Leu Gln Asn Val Gln Arg
 65 70 75 80
 Val Thr Lys

<210> 96
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 96
 Met Pro Ser Ser Glu Cys Arg Ser Ser Ala Leu Leu Leu Asn Val Ser
 1 5 10 15
 Leu Ala Glu Ser Glu Ala Gly Arg Arg Pro Gly Lys Pro Gly Trp Ala
 20 25 30
 Glu Glu Ala Thr Gly Gly Arg Arg Ala Ser Arg Lys Asp Gly Thr Gln
 35 40 45
 Gly

<210> 97
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 97
 Met Ala His Arg Ser Trp Ile Leu Ser Ser Ser Leu Leu Pro Ile Pro
 1 5 10 15
 Ile Phe Phe Leu Leu Pro Pro Ser Ser Ala Ala Thr Leu Ala Thr Pro
 20 25 30
 Gly Ser

<210> 98
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 98
 Met Leu Val Phe Leu Pro Phe Thr Val Leu Val Leu Ile Ser Tyr Ile
 1 5 10 15
 Phe Ser Ser His Ser Phe Asn Pro Leu Phe Thr Leu Cys Asp Phe Glu
 20 25 30
 Gln Val Leu Leu His Leu Lys Ile Phe Ser His Pro
 35 40

<210> 99
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 99

Met Ala Leu Val Ile Ser Ala Pro Pro Pro Asn Ser Pro Cys Asn Cys
 1 5 10 15
 Phe Phe Phe Ile Phe Leu Phe Ile Leu Pro Leu Ile Phe Pro Leu Phe
 20 25 30
 Lys Gly Leu Phe Ala Thr Phe Val Phe Phe
 35 40

<210> 100
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 100
 Met Ala Ser Thr Leu Glu Thr Ile Arg Pro Leu Gly Phe Leu Leu Leu
 1 5 10 15
 Tyr Cys Phe Ile Ser Leu Leu Tyr Leu Pro Val Leu Glu Thr Ser Phe
 20 25 30
 Ser Phe Leu Leu Val Trp Arg Leu Glu Pro Ile Val
 35 40

<210> 101
 <211> 165
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any amino acid

<400> 101
 Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
 1 5 10 15
 Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
 20 25 30
 Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg
 35 40 45
 Ser Asn Arg Gln Leu Gly Ile Xaa Gln Thr Thr Val Phe Thr Pro Val
 50 55 60
 Ala Arg Leu Pro Ile Val Asn Phe Asp Tyr Ser Met Glu Glu Lys Phe
 65 70 75 80
 Glu Ser Phe Ser Ser Phe Pro Gly Val Glu Ser Ser Tyr Asn Val Leu
 85 90 95
 Pro Gly Lys Lys Gly His Cys Leu Val Lys Gly Ile Thr Met Tyr Asn
 100 105 110
 Lys Ala Val Trp Ser Pro Glu Pro Cys Thr Thr Cys Leu Cys Ser Asp

115 120 125
 Gly Arg Val Leu Cys Asp Glu Thr Met Cys His Pro Gln Arg Cys Pro
 130 135 140
 Gln Thr Val Ile Pro Glu Gly Glu Cys Cys Pro Val Cys Pro Leu Leu
 145 150 155 160
 Val Gln Ser Phe Ser
 165

<210> 102
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 102
 Met Leu Gly Leu Gln Pro Gln Gly Leu Gly Trp Pro Ala Leu Leu Leu
 1 5 10 15
 Leu Ile Leu Lys Thr Phe Lys Val Gly Gly Trp Gln Gly Met Cys Leu
 20 25 30
 Ile Asn Gln Phe Gln Ala Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60

<210> 103
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 103
 Met Val Val Ile Thr Val Leu Leu Ser Val Ala His Val Pro Ala Gly
 1 5 10 15
 Ala Gly Leu His His Cys Pro Gly Thr Gly Leu Pro Gln Val Arg Arg
 20 25 30
 Ser Ala Arg Ser Ser Ser Phe Ser Arg Lys Pro Arg Ala Pro Ser Ser
 35 40 45
 Ser Pro Ala His Leu Leu Pro Gly Pro Arg Pro Val Ala Pro Leu Val
 50 55 60
 Pro Ser Leu Leu Leu Cys Pro Pro Leu Pro
 65 70

<210> 104
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any amino acid

<400> 104
 Met Leu Ser Val Gly Ile Ala Leu Ala Ala Leu Gly Ser Leu Leu Leu
 1 5 10 15
 Leu Gly Leu Leu Leu Tyr Gln Val Gly Val Ser Gly His Cys Pro Ser
 20 25 30
 Ile Cys Met Ala Thr Pro Ser Thr His Ser Gly His Gly Gly His Gly
 35 40 45
 Ser Ile Phe Ser Ile Ser Gly Gln Leu Ser Ala Gly Arg Arg His Glu
 50 55 60
 Thr Thr Ser Ser Ile Ala Xaa Leu Ile
 65 70

<210> 105
 <211> 163
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any amino acid

<400> 105
 Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
 1 5 10 15
 Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
 20 25 30
 Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
 35 40 45
 Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
 50 55 60
 Pro Glu Thr Glu Asp Val Ser Asn Arg Asn Val Val Lys Glu Val Glu
 65 70 75 80
 Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
 85 90 95
 Leu Thr Asn Gly Cys Pro Gly Gly Glu Xaa Lys Cys Val Val Arg Val
 100 105 110
 Xaa Glu Cys Arg Gly Pro Thr Asp Cys Gly Trp Gly Lys Pro Ile Ser

115 120 125
 Glu Ser Leu Glu Ser Val Arg Leu Ala Cys Ile His Thr Ser Pro Leu
 130 135 140
 Ile Val Ser Ile Tyr Val Glu Leu Leu Arg Gln Thr Thr Ile His Tyr
 145 150 155 160
 Thr Cys Lys

<210> 106
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 106
 Met Phe Met Pro Leu Leu Ser Ser Leu Leu Gly Arg Val Gln Gln Lys
 1 5 10 15
 Gln Asn Asn Lys Val Thr Ala Phe Cys Ser Ser Gln Lys Glu Asn Lys
 20 25 30
 Ser Leu Ile Leu Gly Leu Lys Leu Phe Ile Gln Val Val Gln Thr Cys
 35 40 45
 Ile Trp Lys Thr Tyr Ser
 50

<210> 107
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 107
 Met Ser Lys Thr Phe Leu Ser Ala Phe Leu Phe Leu Thr Val Leu Ser
 1 5 10 15
 Leu Thr Val Leu Ser Ile Cys Ser Asn
 20 25

<210> 108
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 108
 Met Cys Leu Phe Val Ser Leu Leu Ile Leu Ser Leu Gly Ile Gly Lys
 1 5 10 15
 His Ser Met Asn Ile Tyr Thr Leu Thr Phe Phe
 20 25

<210> 109
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 109
 Met Gln Leu Arg Gly Leu Ser Leu Asn Pro Arg Leu Leu Leu Thr Leu
 1 5 10 15
 Gly Ser Phe Asn Gln Val Gly Gln Pro Leu Leu Gln Arg Gly Val Gly
 20 25 30
 Trp Leu Ser Ser Leu Ser His Ala Ala Cys Glu Asp Arg Gly Gly Gly
 35 40 45
 Val Gly Ser Gly Lys Ser Pro Glu Asn Arg Arg Gly Ile
 50 55 60

<210> 110
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 110
 Met Leu Leu Thr Leu Phe Ala His Thr Ala Leu Asp Thr Tyr Leu Leu
 1 5 10 15
 Ser Glu Ala Phe Phe Pro His Ser Ile Leu Pro Ala Leu Leu Leu Ile
 20 25 30
 Lys Ile Ser Ser Ala Cys Ser Gln Thr Gln Ser Glu Ser Gln Lys Asn
 35 40 45
 Pro Ala
 50

<210> 111
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 111
 Met Thr Val Leu Ile Asn Ile Ile Leu Ser Leu Val Lys Thr Gly Pro
 1 5 10 15
 Gly Gln His Leu Asn His Ser Glu Leu Ala Ile Leu Leu Asn Leu Leu
 20 25 30
 Gln Ser Lys Thr Ser Val Asn Met Ala Asp Phe Val Gln Val Leu Asn
 35 40 45
 Ile Lys Val Asn Ser Glu Thr Gln Gln Gln Leu Asn Lys Ile Asn Leu
 50 55 60
 Pro Ala Gly Ile Leu Ala Thr Gly Glu Lys Gln Thr Asp Pro Ser Thr
 65 70 75 80

Pro Gln Gln Glu Ser Ser Lys Pro Leu Gly Gly Ile Gln Pro Ser Ser
85 90 95
Gln Thr Ile Gln Pro Lys Val Glu Thr Asp Ala Ala Gln Ala Ala Val
100 105 110
Gln Ser Ala Phe Ala Val Leu Leu Thr Gln Leu Ile Lys Ala Gln Gln
115 120 125
Ser Lys Gln Lys Asp Val Leu Leu Glu Glu Arg Glu Asn Gly Ser Gly
130 135 140
His Glu Ala Ser Leu Gln Leu Arg Pro Leu Gln Asn Leu Ala Leu Arg
145 150 155 160
Cys Arg Val Ser Val Gln Ile Pro Asp His
165 170

<210> 112
<211> 39
<212> PRT
<213> Homo sapiens

<400> 112
Met Leu Leu Leu Leu Lys Thr Leu Phe Val Thr Phe Trp Ser Thr Asn
1 5 10 15
Leu Ser Ile Thr Phe Ser Asn Tyr Asn Val Lys Leu Tyr Gln Trp Gln
20 25 30
Ser Tyr Ile Val Asn Gly Ser
35

<210> 113
<211> 64
<212> PRT
<213> Homo sapiens

<400> 113
Met Lys Gln His His Ile Leu Gln Arg Asn Leu Leu Gly Lys Glu Glu
1 5 10 15
Pro Ile Asp Met Ala Asn Ile Ile Val Val Leu Phe Ser Glu Ile Ala
20 25 30
Ala Ala Thr Pro Ala Phe Ser Ser His His Pro Asp Pro Ser Ala Ala
35 40 45
Ser Asn Ile Lys Ala Arg Phe Ser Thr Ser Gln Lys Lys Lys Thr Leu
50 55 60

<210> 114

<211> 27
 <212> PRT
 <213> Homo sapiens

<400> 114
 Met Val Leu Phe Leu Phe Phe Val Phe Val Phe Cys Leu Tyr Trp Glu
 1 5 10 15
 Leu Ala Leu Leu Val Thr Ser Leu Phe Ser Phe
 20 25

<210> 115
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any amino acid

<400> 115
 Met Glu Phe Thr Gln Ile Val Leu Ser Phe Arg Thr Lys Glu Met Pro
 1 5 10 15
 Val Ile Phe Leu Ile Val Asn Leu Ala Lys His Arg Leu Lys Glu Trp
 20 25 30
 Leu Ser Ser Leu Pro Ser Thr Leu Ser Leu Leu Leu Ile Cys Ala Lys
 35 40 45
 Cys His Cys Leu Leu Leu Ile Pro Lys Thr Val Xaa Ser Ser Leu Cys
 50 55 60
 Leu Leu Pro Asn Ser Lys
 65 70

<210> 116
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 116
 Gly Ala Ala Gly Ile Ser Gly Glu Pro Gly Ala Ser Arg Cys Cys Ser
 1 5 10 15
 Gly Asp Ser Cys Thr
 20

<210> 117
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 117

Met	Ser	Ser	Asp	Phe	Leu	Cys	Phe	Phe	Phe	Lys	Leu	Cys	Asn	Gln	Met
1				5					10					15	
Ile	Leu	Cys	Phe	Phe	Phe	Arg	Gly	Ala	Glu	Tyr	Trp	Phe	Leu	Leu	Leu
			20					25					30		
Val	Val	Phe	Ser	Phe	Leu	Cys	His	Ser	Cys	Phe	Phe	Phe	Val	Phe	Ser
		35					40					45			
Val	Ser	Asn	Thr	Ile	Cys	Ile									
	50					55									

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<210> 118
<211> 88
<212> PRT
<213> Homo sapiens
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<400> 118
Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
  1                    5                10                15
Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
      20                25                30
Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg
      35                40                45
Ser Asn Arg Gln Leu Gly Ile Pro Gln Thr Thr Val Phe Thr Pro Val
      50                55                60
Ala Arg Leu Pro Ile Val Asn Phe Asp Tyr Ser Met Glu Glu Lys Phe
      65                70                75                80
Glu Ser Phe Gln Val Phe Leu Glu
      85

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<210> 119
<211> 124
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (75)
<223> Xaa equals any amino acid
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<400> 119
Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
1 5 10 15
Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
20 25 30
Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
35 40 45
Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro

50 55 60
 Ser Glu Thr Glu Asp Val Ser Asn Arg Asn Xaa Val Lys Glu Val Glu
 65 70 75 80
 Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
 85 90 95
 Leu Thr Asn Gly Cys Pro Gly Gly Glu Ser Lys Cys Val Val Arg Val
 100 105 110
 Glu Glu Cys Pro Trp Thr Asn Arg Leu Trp Leu Gly
 115 120

<210> 120
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 120
 Pro Leu Leu Ser Ser Leu Leu Gly Arg Val Gln Gln Lys Gln Asn Asn
 1 5 10 15
 Lys Val Thr Ala Phe Cys Ser Ser Gln Lys Glu Asn Lys Ser Leu Ile
 20 25 30

Leu Val

<210> 121
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 121
 Gly Thr Pro Gly Val Ser Thr His Ile Trp Gly Lys Pro Asp Pro Gln
 1 5 10 15

Val Thr Asp

<210> 122
 <211> 206
 <212> PRT
 <213> Homo sapiens

<400> 122
 Met Gly Ala Glu Trp Glu Leu Gly Ala Glu Ala Gly Gly Ser Leu Leu
 1 5 10 15

Leu Cys Ala Ala Leu Leu Ala Ala Gly Cys Ala Leu Gly Leu Arg Leu
 20 25 30

Gly Arg Gly Gln Gly Ala Ala Asp Arg Gly Ala Leu Ile Trp Leu Cys
 35 40 45

Tyr Asp Ala Leu Val His Phe Ala Leu Glu Gly Pro Phe Val Tyr Leu
50 55 60

Ser Leu Val Gly Asn Val Ala Asn Ser Asp Gly Leu Ile Ala Ser Leu
65 70 75 80

Trp Lys Glu Tyr Gly Lys Ala Asp Ala Arg Trp Val Tyr Phe Asp Pro
85 90 95

Thr Ile Val Ser Val Glu Ile Leu Thr Val Ala Leu Asp Gly Ser Leu
100 105 110

Ala Leu Phe Leu Ile Tyr Ala Ile Val Lys Glu Lys Tyr Tyr Arg His
115 120 125

Phe Leu Gln Ile Thr Leu Cys Val Cys Glu Leu Tyr Gly Cys Trp Met
130 135 140

Thr Phe Leu Pro Glu Trp Leu Thr Arg Ser Pro Asn Leu Asn Thr Ser
145 150 155 160

Asn Trp Leu Tyr Cys Trp Leu Tyr Leu Phe Phe Phe Asn Gly Val Trp
165 170 175

Val Leu Ile Pro Gly Leu Leu Leu Trp Gln Ser Trp Leu Glu Leu Lys
180 185 190

Lys Met His Gln Lys Glu Thr Ser Ser Val Lys Lys Phe Gln
195 200 205

<210> 123
<211> 55
<212> PRT
<213> Homo sapiens

<400> 123
Met Asn Gln Ile Phe Leu Phe Gly Gln Asn Val Ile His Ser Ser Leu
1 5 10 15

His Phe Val Phe Val Leu Leu Leu Leu Asn Asn Leu Phe Gln Ile Gly
20 25 30

Phe Lys Ala Thr Ser Phe Arg Cys Ile Val Val Gln Leu Asn Gly Asp
35 40 45

Ile Gly Lys Arg Glu Gln Ile
50 55

<210> 124
<211> 202
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)

<223> Xaa equals any amino acid

<400> 124

Ser	Pro	Ser	Val	Arg	Ala	Gly	Ala	Gly	Pro	Glu	Asp	Ala	Leu	Lys	Gln
1				5					10					15	
Arg	Ala	Glu	Gln	Ser	Ile	Xaa	Glu	Glu	Pro	Gly	Trp	Glu	Glu	Glu	Glu
		20						25					30		
Glu	Glu	Leu	Met	Gly	Ile	Ser	Pro	Ile	Ser	Pro	Lys	Glu	Ala	Lys	Val
		35					40					45			
Pro	Val	Ala	Lys	Ile	Ser	Thr	Phe	Pro	Glu	Gly	Glu	Pro	Gly	Pro	Gln
	50					55					60				
Ser	Pro	Cys	Glu	Glu	Asn	Leu	Val	Thr	Ser	Val	Glu	Pro	Pro	Ala	Glu
	65				70					75					80
Val	Thr	Pro	Ser	Glu	Ser	Ser	Glu	Ser	Ile	Ser	Leu	Val	Thr	Gln	Ile
				85					90					95	
Ala	Asn	Pro	Ala	Thr	Ala	Pro	Glu	Ala	Arg	Val	Leu	Pro	Lys	Asp	Leu
			100					105						110	
Ser	Gln	Lys	Leu	Leu	Glu	Ala	Ser	Leu	Glu	Glu	Gln	Gly	Leu	Ala	Val
		115						120					125		
Asp	Val	Gly	Glu	Thr	Gly	Pro	Ser	Pro	Pro	Ile	His	Ser	Lys	Pro	Leu
	130					135					140				
Thr	Pro	Ala	Gly	His	Arg	Phe	Trp	Trp	Leu	Pro	Ala	Gly	Pro	Leu	Gly
145					150					155					160
Pro	Leu	Leu	Thr	Pro	Gly	Lys	Gly	Leu	Ser	Lys	Ser	Arg	Pro	Glu	Thr
				165					170					175	
Leu	Thr	Cys	Ala	Asn	Asn	Arg	Met	Thr	Gln	Gly	Arg	Gly	Asn	Leu	Ser
			180					185					190		
Ser	Ser	Pro	Glu	Glu	Pro	Val	Phe	Phe	Cys						
		195					200								

<210> 125

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any amino acid

<400> 125

Gly	Pro	Glu	Asp	Ala	Leu	Lys	Gln	Arg	Ala	Glu	Gln	Ser	Ile	Xaa	Glu
1					5					10				15	
Glu	Pro	Gly	Trp	Glu	Glu	Glu	Glu								
				20											

<210> 126
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 126
 Ala Lys Val Pro Val Ala Lys Ile Ser Thr Phe Pro Glu Gly Glu Pro
 1 5 10 15

Gly Pro Gln Ser Pro Cys Glu Glu
 20

<210> 127
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 127
 Pro Ala Glu Val Thr Pro Ser Glu Ser Ser Glu Ser Ile Ser Leu Val
 1 5 10 15

Thr Gln Ile Ala Asn Pro Ala
 20

<210> 128
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 128
 Leu Ser Gln Lys Leu Leu Glu Ala Ser Leu Glu Glu Gln Gly Leu Ala
 1 5 10 15

Val Asp Val Gly Glu Thr Gly Pro Ser Pro
 20 25

<210> 129
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 129
 Trp Leu Pro Ala Gly Pro Leu Gly Pro Leu Leu Thr Pro Gly Lys Gly
 1 5 10 15

Leu Ser Lys Ser Arg Pro Glu Thr Leu Thr Cys
 20 25

<210> 130
 <211> 229
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (117)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (195)

<223> Xaa equals any amino acid

<400> 130

Ile Gly Gly Glu Gly Pro Val Ser Pro Thr Ser Thr Ala Arg Pro Cys
1 5 10 15

Ser Ser Lys Asp Ala Ser Ser Ser Phe Trp Asp Arg Ser Leu Gly Ser
20 25 30

Thr Arg Ala Ser Gly Ala Val Ala Gly Leu Ala Ile Cys Val Thr Arg
35 40 45

Glu Met Leu Ser Leu Leu Ser Asp Gly Val Thr Ser Ala Gly Gly Ser
50 55 60

Thr Glu Val Thr Arg Phe Ser Ser Gln Gly Leu Trp Gly Pro Gly Ser
65 70 75 80

Pro Ser Gly Asn Val Glu Ile Leu Ala Thr Gly Thr Phe Ala Ser Phe
85 90 95

Gly Asp Met Gly Glu Met Pro Met Ser Ser Ser Ser Ser Ser Gln
100 105 110

Pro Gly Ser Ser Xaa Met Leu Cys Ser Ala Arg Cys Phe Arg Ala Ser
115 120 125

Ser Gly Pro Ala Pro Ala Leu Thr Asp Gly Leu Tyr Arg Asn Thr Asp
130 135 140

Ala Arg Ile Leu Asn Gly Lys Gln Leu Leu Glu Pro Ser Trp Cys Arg
145 150 155 160

Gly Pro Gly Trp Arg Gly Cys Leu Gln Gly Ala Leu Arg Ser Pro Pro
165 170 175

Ser Ser Pro Pro Ser Arg Thr Gly Lys Ala Arg Arg Gln Thr Ile Pro
180 185 190

Gly Ala Xaa Leu Val His Tyr Ser Arg Leu Leu Gly Pro Thr Ala Gly
195 200 205

Tyr Arg Gly Glu Pro Trp Cys His His Arg Ala Gln Leu Cys Gln Thr
210 215 220

Val Cys Pro Ser Gly
225

<210> 131

<211> 26
 <212> PRT
 <213> Homo sapiens

<400> 131
 Ala Arg Pro Cys Ser Ser Lys Asp Ala Ser Ser Ser Phe Trp Asp Arg
 1 5 10 15
 Ser Leu Gly Ser Thr Arg Ala Ser Gly Ala
 20 25

<210> 132
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 132
 Arg Phe Ser Ser Gln Gly Leu Trp Gly Pro Gly Ser Pro Ser Gly Asn
 1 5 10 15
 Val Glu Ile Leu Ala Thr Gly Thr Phe Ala Ser
 20 25

<210> 133
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 133
 Tyr Arg Asn Thr Asp Ala Arg Ile Leu Asn Gly Lys Gln Leu Leu Glu
 1 5 10 15
 Pro Ser Trp Cys Arg Gly Pro Gly Trp
 20 25

<210> 134
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 134
 Pro Gly Trp Arg Gly Cys Leu Gln Gly Ala Leu Arg Ser Pro Pro Ser
 1 5 10 15
 Ser Pro Pro Ser Arg Thr Gly Lys Ala Arg Arg Gln
 20 25

<210> 135
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 135

Gly Gly Arg Gly Gly Arg Gly
1 5

<210> 136
<211> 39
<212> PRT
<213> Homo sapiens

<400> 136
Tyr Gln Lys Asn Val Thr Phe Tyr Pro Phe Phe Gly Thr Ile Leu Lys
1 5 10 15
Thr Gly Phe Thr Gly Gly Lys Ser Arg Asn Ser Ala Lys Gly Ser Pro
20 25 30
Pro Ser Ala Arg Pro Lys Gly
35

<210> 137
<211> 161
<212> PRT
<213> Homo sapiens

<400> 137
Pro Leu Val Cys Gly Arg Ser Gly Val Phe Ser Ala Ala Pro Thr Pro
1 5 10 15
Ser Arg Ser Pro Pro Pro Asn Gln Arg Arg Thr Gly Pro Arg Leu Pro
20 25 30
Arg His Ser Arg Thr Gly Ser Leu Leu Ala Gly Ala Gly Pro Gly Leu
35 40 45
Ala Ala Leu Val Thr Met Ser Glu Thr Ser Phe Asn Leu Ile Ser Glu
50 55 60
Lys Cys Asp Ile Leu Ser Ile Leu Arg Asp His Pro Glu Asn Arg Ile
65 70 75 80
Tyr Arg Arg Lys Ile Glu Glu Leu Ser Lys Arg Phe Thr Ala Ile Arg
85 90 95
Lys Thr Lys Gly Asp Gly Asn Cys Phe Tyr Arg Ala Leu Gly Tyr Ser
100 105 110
Tyr Leu Glu Ser Leu Leu Gly Lys Ser Arg Glu Ile Phe Lys Phe Lys
115 120 125
Glu Arg Val Leu Gln Thr Pro Asn Asp Leu Leu Ala Ala Gly Phe Glu
130 135 140
Glu His Lys Phe Arg Asn Phe Phe Asn Ala Phe Thr Val Trp Trp Asn
145 150 155 160
Trp

<210> 138
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 138
 Val Phe Ser Ala Ala Pro Thr Pro Ser Arg Ser Pro Pro Pro Asn Gln
 1 5 10 15

Arg Arg Thr Gly Pro Arg Leu
 20

<210> 139
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 139
 Leu Ala Ala Leu Val Thr Met Ser Glu Thr Ser Phe Asn Leu Ile Ser
 1 5 10 15

Glu Lys Cys Asp Ile Leu Ser Ile Leu Arg Asp His Pro
 20 25

<210> 140
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 140
 Glu Glu Leu Ser Lys Arg Phe Thr Ala Ile Arg Lys Thr Lys Gly Asp
 1 5 10 15

Gly Asn Cys Phe Tyr Arg Ala Leu Gly Tyr Ser Tyr Leu Glu Ser
 20 25 30

<210> 141
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 141
 Asn Asp Leu Leu Ala Ala Gly Phe Glu Glu His Lys Phe Arg Asn Phe
 1 5 10 15

Phe Asn Ala Phe
 20

<210> 142
 <211> 23
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any amino acid

<400> 142

Arg Pro Leu Val Leu Leu Arg Xaa Arg Glu Ser Ala Phe Leu Glu Leu
1 5 10 15

Leu Ala Lys Cys Glu Lys Leu
20

<210> 143

<211> 8

<212> PRT

<213> Homo sapiens

<400> 143

Phe Gly Tyr Thr Val Ile Asn Thr
1 5

<210> 144

<211> 29

<212> PRT

<213> Homo sapiens

<400> 144

Glu Phe Gly Thr Ser Ala Leu Val Ser Thr Cys Ser Pro Ile Pro Ser
1 5 10 15

Pro Asp Phe Ser Leu Leu Leu Thr Pro Ser Lys Ala Ile
20 25

<210> 145

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any amino acid

<400> 145

Arg Val Val His Arg Phe Phe Lys Ser Ser Ala Phe Trp Pro Xaa Glu
1 5 10 15

Val Lys Gln Pro Arg Gly Gly Pro Lys Thr Gly Ser Arg Lys Glu Gly
20 25 30

Ala Gly Ser Arg Ala Pro Gln Pro Val Val Arg Ser Phe Cys Gly Ser
35 40 45

Val Gly Ala Glu Gly Arg Met Glu Lys Leu Arg Leu Leu Gly Leu Arg
50 55 60

Tyr Gln Glu Tyr Val Thr Arg His Pro Ala Ala Thr Ala Gln Leu Glu
65 70 75 80

Thr Ala Val Arg Gly Phe Ser Tyr Leu Leu Ala Gly Arg Phe Ala Asp
85 90 95

Ser His Glu Leu Ser Glu Leu Val Tyr Ser Ala Ser Asn Leu Leu Val
100 105 110

Leu Leu Asn Asp Gly Ile Leu Arg Lys Glu Leu Arg Lys Lys Leu Pro
115 120 125

Val Ser Leu Ser Gln Gln Lys Leu Leu Thr Trp Leu Ser Val Leu Glu
130 135 140

Cys Val Glu Val Phe Met Glu
145 150

<210> 146
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (39)
<223> Xaa equals any amino acid

<400> 146
Pro Gly Cys Ile Ala Gly Trp Glu Leu Leu Ser Val Val Gln Gly Pro
1 5 10 15

Gly Pro Arg Pro Pro Pro Arg Pro Arg Pro Arg Lys Xaa His Ser Arg
20 25 30

Ala Gly Cys Gly Leu Glu Xaa Gly Ala Gly Gly Asp
35 40

<210> 147
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any amino acid

<400> 147

Gly Val Thr Pro Trp Gly Gly Gly Leu Gln Arg Xaa Leu Pro Val Ala
 1 5 10 15
 Thr Trp Cys Leu Trp Glu Leu Val Leu Gly Thr Leu Met Gly Val Cys
 20 25 30
 Gly Pro Ser Cys Arg Pro Ala Pro Ser Ser Arg Ala Pro Gly Leu Gly
 35 40 45
 Pro Pro Thr Pro Leu Leu Ser Ser Gly Lys Ser Pro Cys Gly Ser Ser
 50 55 60
 Pro Gly Ser Arg Ser Gly Ala Met Arg Gly Ala Pro Trp Pro Arg Phe
 65 70 75 80
 Arg Lys Ala Cys Val Cys Ala Arg Gly Lys Gly Leu His Asp Lys Arg
 85 90 95
 Thr Arg Phe Asp Leu Asn
 100

<210> 148
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 148
 Ala Thr Trp Cys Leu Trp Glu Leu Val Leu Gly Thr Leu Met Gly Val
 1 5 10 15
 Cys Gly Pro Ser Cys Arg Pro Ala Pro Ser Ser Arg Ala Pro Gly Leu
 20 25 30
 Gly Pro

<210> 149
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 149
 Pro Thr Pro Leu Leu Ser Ser Gly Lys Ser Pro Cys Gly Ser Ser Pro
 1 5 10 15
 Gly Ser Arg Ser Gly Ala Met Arg Gly Ala Pro
 20 25

<210> 150
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 150
 Ala Arg Asp Phe Gly Lys Cys Cys Tyr Val Asn Thr Thr Ile Thr Ile

1 5 10 15
 Lys Ile Val Tyr Ser Ser Ser Thr Pro Cys Pro Glu Thr Cys Leu Phe
 20 25 30
 Cys Leu Val Ser Ser Ser Pro His His Gln Pro Leu Ser Thr Asp Ser
 35 40 45
 Phe Ser Val Cys Ile Val Tyr Ile Ile Ser Arg
 50 55

<210> 151
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 151
 Thr Ile Lys Ile Val Tyr Ser Ser Ser Thr Pro Cys Pro Glu Thr Cys
 1 5 10 15
 Leu Phe Cys Leu Val Ser Ser Ser Pro His His Gln Pro Leu Ser
 20 25 30

<210> 152
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 152
 Gly Thr Ser Thr Asn Pro Arg Ile Pro Arg Val His Leu Leu Val Ala
 1 5 10 15
 Lys Asp Ile Ser Arg Thr Val Ile Ser Leu Val Lys Phe Ile Cys Ser
 20 25 30
 Cys Ala Arg Phe His Phe Phe Gln Gln Ser Glu Thr Thr Trp Gly Thr
 35 40 45

<210> 153
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 153
 Leu Val Ala Lys Asp Ile Ser Arg Thr Val Ile Ser Leu Val Lys Phe
 1 5 10 15
 Ile Cys Ser Cys Ala Arg
 20

<210> 154
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 154
 Leu Ser Pro Pro Arg Gly Ala Cys Arg
 1 5

<210> 155
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 155
 Gly Arg Pro Thr Arg Pro Leu Arg Val Ala
 1 5 10

<210> 156
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 156
 Ala Trp Cys Pro Gln Thr His Thr Thr Ser Cys Leu Met Gly Pro Phe
 1 5 10 15
 Cys Cys Tyr Ser Pro Leu Pro Gly Asp Met Pro Thr Met Ala Arg Pro
 20 25 30
 Cys Pro Gln Thr Trp Val Ser Thr His Val Arg Pro Ala Thr Gly Leu
 35 40 45
 Ala Arg Gln Ser Ala Glu Ala Leu Gly Cys Leu Trp Leu Ser Ser Gly
 50 55 60
 Arg Ile Ser Arg Ser Ser Leu Gly Thr Trp Trp Leu Trp Trp Val Ser
 65 70 75 80
 Ser Leu Leu Trp Asn Val Gly Arg Pro Gly Ala Thr Gln Ser Pro Gln
 85 90 95
 Ser His Gly Gly Lys Met Gly Asn Pro Trp Pro Ser Ser Pro Glu Gly
 100 105 110
 Thr Gln Cys Pro Gly Gly Pro Cys
 115 120

<210> 157
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 157
 Cys Cys Tyr Ser Pro Leu Pro Gly Asp Met Pro Thr Met Ala Arg Pro

1 5 10 15
 Cys Pro Gln Thr Trp Val Ser Thr His
 20 25

<210> 158
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 158
 Ala Leu Gly Cys Leu Trp Leu Ser Ser Gly Arg Ile Ser Arg Ser Ser
 1 5 10 15

Leu Gly

<210> 159
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 159
 Trp Asn Val Gly Arg Pro Gly Ala Thr Gln Ser Pro Gln Ser His Gly
 1 5 10 15

Gly Lys Met Gly Asn Pro Trp Pro Ser Ser Pro Glu
 20 25

<210> 160
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 160
 Leu Ser Ala Tyr Arg Thr Leu Asp Asn Thr His Ile His Thr His Lys
 1 5 10 15

Asn Ala His Glu Pro Asn Pro Glu Lys Val Pro Ala Gly Pro Pro Pro
 20 25 30

Ser Pro Pro Pro Pro Thr Ser Pro Leu Asp Ser Glu Asp Arg Arg Gly
 35 40 45

Thr Arg Gly His Leu Gly Arg Pro Ala Gly Ser Pro Pro Thr Pro Pro
 50 55 60

Arg Pro Ser His His Thr Pro Ile Ile Thr Leu Tyr Ile Thr Gln Ser
 65 70 75 80

Phe Trp Phe Ser Arg Thr Arg Leu Pro Lys Tyr His Leu Gln Lys Val
 85 90 95

Thr Leu Ala Gly His Tyr Phe Val Tyr Leu Phe Pro Met Gln Lys Lys
 100 105 110

Asn Glu Asn Glu Lys Arg Gly Ile Pro
 115 120

<210> 161
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 161
 Leu Ser Ala Tyr Arg Thr Leu Asp Asn Thr His Ile His Thr His Lys
 1 5 10 15

Asn Ala His Glu Pro Asn Pro Glu Lys Val Pro Ala Gly
 20 25

<210> 162
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 162
 Leu Asp Ser Glu Asp Arg Arg Gly Thr Arg Gly His Leu
 1 5 10

<210> 163
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 163
 Ile Ile Thr Leu Tyr Ile Thr Gln Ser Phe Trp Phe Ser Arg Thr Arg
 1 5 10 15

Leu Pro Lys Tyr His Leu Gln Lys Val Thr Leu Ala
 20 25

<210> 164
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 164
 Val Ile Ile Leu Phe Ile Cys Ser Leu Cys
 1 5 10

<210> 165
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 165

Ile	Asp	Phe	Phe	Val	Val	Val	Ser	Phe	Leu	Tyr	Phe	Thr	Asp	Ile	Thr
1				5					10					15	

Arg	Ile	Val	Tyr	Ser	Pro	Ser	Ser	Phe	Leu	Leu	Thr	Ala	His	Trp	Ile
		20						25					30		

Thr	His	Thr	Tyr	Thr	Pro	Thr	Lys
		35					40

<210> 166

<211> 40

<212> PRT

<213> Homo sapiens

<400> 166

Ile	Asp	Phe	Phe	Val	Val	Val	Ser	Phe	Leu	Tyr	Phe	Thr	Asp	Ile	Thr
1				5					10					15	

Arg	Ile	Val	Tyr	Ser	Pro	Ser	Ser	Phe	Leu	Leu	Thr	Ala	His	Trp	Ile
		20						25					30		

Thr	His	Thr	Tyr	Thr	Pro	Thr	Lys
		35					40

<210> 167

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any amino acid

<400> 167

Gly	Val	Val	Ser	Arg	Gly	Phe	Xaa	Ala	Leu	Leu	Ser	Gly	Gly	Arg	Gly
1				5					10					15	

Glu	Leu	Glu	Ala	Gly	Gly	Val	Ala	Ala
		20						25

<210> 168

<211> 45

<212> PRT

<213> Homo sapiens

<400> 168

Asp	Phe	Phe	Phe	Phe	Asn	Val	Arg	Arg	Arg	Asn	Ser	Gln	Ile	Thr	Leu
1				5					10					15	

Leu	Pro	Ala	Lys	Arg	Leu	Phe	Thr	Thr	Ser	Pro	Leu	Leu	Gln	Leu	Gly
		20						25					30		

Leu	Ser	Val	Phe	Asn	Leu	Thr	Ile	Leu	Asn	Val	Arg	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35

40

45

<210> 169
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any amino acid

<400> 169
 Cys Ile Asp His Xaa Gly Lys Arg Xaa Leu Thr Val Pro Val Arg Ile
 1 5 10 15
 Pro Gly Arg Pro Thr Arg Pro Cys Phe Tyr Ser Leu Thr Ile
 20 25 30

<210> 170
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 170
 Val Gln Gln Ser Leu Ser Ile Phe Lys Ser Leu Pro Ser Leu Leu Met
 1 5 10 15
 Leu Gln Arg Val Phe Ser Cys Thr Tyr Ile Leu Ala Glu Val Phe Gly
 20 25 30
 Tyr Ile Pro Thr Val Glu Phe Leu Gly Tyr Val Val Pro Ala Ser Ser
 35 40 45
 Pro Thr Asn Ser Val Gln Met Val Thr Pro Ser Val Cys Met Thr Leu
 50 55 60
 Ser Val Cys Ala Arg Gly Phe Leu Leu His Ile Ser Ser Gln Thr Phe
 65 70 75 80
 Phe Phe Phe Phe Asp Arg Val Trp Ala Leu Ser Pro Arg Leu Val Ala
 85 90 95
 Val Glu Leu Glu Ser Arg His Gly Ile Pro Ala Trp Gly Asn Arg Val
 100 105 110
 Arg Leu His Pro Pro Pro Arg Glu Lys Pro Asn
 115 120

<210> 171

Lys Ala Arg Leu Gly Gly Gln Gln Gln Thr Trp Val Glu Gly Glu Trp
35 40 45

Val Met Gly Arg Ala Cys Ala Gly Trp Ser Pro Ala Gly Asp Gly Arg
50 55 60

Gly His Lys Ala Arg Gln Lys Ala Val Met Ala Ala Glu Arg Ser Thr
65 70 75 80

Gln Gly Pro Pro Leu Gly His Glu Cys Arg Pro Pro Arg Gly Arg Arg
85 90 95

Leu Ala Thr Ser Val Gly Pro Arg Cys Pro Ser Ala Gln Cys Pro Arg
100 105 110

Ala Arg Gln Pro Pro Arg Thr Glu Thr Arg Ser Ala Gly Gly Leu Gln
115 120 125

Leu Leu Pro Ile Leu Ser Trp Ala Ala Ser Ser Pro His Leu Ser Lys
130 135 140

Leu Ala Gly Glu Leu Glu Pro Leu Arg Pro Gln Pro His Ile Ile Leu
145 150 155 160

Thr Pro Leu Leu Gly Ala Met Pro Cys Cys Thr Arg Ile Phe Cys Phe
165 170 175

Ser Leu Thr Met Gly Ser
180

<210> 175
<211> 43
<212> PRT
<213> Homo sapiens

<400> 175
Ala Ser Leu Ser Pro Lys Pro Val Ala Gly Leu Gly Asn Gln Gly Gly
1 5 10 15

Leu Arg Arg Gln Arg Glu Ala Glu Gly Pro Ala Gly Arg Met Gly Pro
20 25 30

Lys Ala Arg Leu Gly Gly Gln Gln Gln Thr Trp
35 40

<210> 176
<211> 42
<212> PRT
<213> Homo sapiens

<400> 176
Val Glu Gly Glu Trp Val Met Gly Arg Ala Cys Ala Gly Trp Ser Pro
1 5 10 15

Ala Gly Asp Gly Arg Gly His Lys Ala Arg Gln Lys Ala Val Met Ala
20 25 30

Ala Glu Arg Ser Thr Gln Gly Pro Pro Leu
35 40

<210> 177
<211> 44
<212> PRT
<213> Homo sapiens

<400> 177
Gly His Glu Cys Arg Pro Pro Arg Gly Arg Arg Leu Ala Thr Ser Val
1 5 10 15

Gly Pro Arg Cys Pro Ser Ala Gln Cys Pro Arg Ala Arg Gln Pro Pro
20 25 30

Arg Thr Glu Thr Arg Ser Ala Gly Gly Leu Gln Leu
35 40

<210> 178
<211> 53
<212> PRT
<213> Homo sapiens

<400> 178
Leu Pro Ile Leu Ser Trp Ala Ala Ser Ser Pro His Leu Ser Lys Leu
1 5 10 15

Ala Gly Glu Leu Glu Pro Leu Arg Pro Gln Pro His Ile Ile Leu Thr
20 25 30

Pro Leu Leu Gly Ala Met Pro Cys Cys Thr Arg Ile Phe Cys Phe Ser
35 40 45

Leu Thr Met Gly Ser
50

<210> 179
<211> 39
<212> PRT
<213> Homo sapiens

<400> 179
Ile Arg His Ser Leu Pro His Leu Leu Val Lys Val Ile Thr Leu Thr
1 5 10 15

Ser Val Lys Cys Asn Pro Ile Met Asn Ile Ala Arg Val Ile Tyr Cys
20 25 30

Gln Val Arg Asn Arg Leu Val
35

<210> 180

<211> 97
 <212> PRT
 <213> Homo sapiens

<400> 180
 Phe Leu Pro Leu Pro Gln Thr Ala His Val Ile Ala Ser Phe Leu Ser
 1 5 10 15
 Phe Phe Ser Phe Cys Leu Ser Phe Phe Leu Ser Ser Lys Ala Phe Leu
 20 25 30
 Leu Leu Leu Ser Phe Ser Lys Phe Phe Phe Ile Leu Phe Phe Ser Phe
 35 40 45
 Cys Cys Leu Lys Phe Ser His Leu Ala Ser Leu Ser Leu Val Val Ser
 50 55 60
 Arg Gly Val Pro Trp Thr Arg Lys His Gly Gly Ser Leu Ala Glu Trp
 65 70 75 80
 Val Phe Gly Ala Glu Thr Ser Arg Gly Pro Pro Ser Ser Asp Leu Ile
 85 90 95
 Asp

<210> 181
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 181
 Leu Leu Leu Phe Tyr Leu Ser Phe His Phe Ala Ser His Phe Ser Ser
 1 5 10 15
 Leu Gln Arg Pro Phe Cys Tyr Phe Cys Leu Phe Leu Ser Phe Ser Leu
 20 25 30
 Ser Cys Ser Phe Leu Ser Val Val Ser Asn Ser His Ile Trp Pro Val
 35 40 45
 Phe Leu Leu Ser Ser Pro Gly Val Tyr Leu Gly Pro Gly Asn Thr Glu
 50 55 60
 Gly Ala Trp Leu Ser Gly Phe Ser Val Pro Lys Pro Pro Glu Gly Leu
 65 70 75 80
 Leu Pro Val Ile Ser Leu Thr Asp Leu Glu Thr Ala Ser Arg Ser Val
 85 90 95
 Thr Pro Ala Val Val Pro Ser
 100

<210> 182
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 182

Phe Phe Ile Gly Leu Glu Thr Arg Ala Asn Ser Ile Met Phe Ser Lys
1 5 10 15

Glu Thr Asp Leu Ser Cys Trp Ile Arg Gly Thr Asn Pro Thr Tyr Met
20 25 30

Ile Phe Phe Leu Phe Leu Ser Cys Ser Tyr Gly Thr Val Leu Phe Gly
35 40 45

Thr Phe Ala Thr Arg Gly
50

<210> 183

<211> 10

<212> PRT

<213> Homo sapiens

<400> 183

Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
1 5 10

<210> 184

<211> 10

<212> PRT

<213> Homo sapiens

<400> 184

Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
1 5 10

<210> 185

<211> 49

<212> PRT

<213> Homo sapiens

<400> 185

Ile Leu Phe Asn Ile Pro Phe Cys Pro Phe Phe Val Phe Lys Glu Ser
1 5 10 15

Ser Asp Phe Val Ser Phe Ser Ala Gly Asp Leu Asn Asp Thr Lys Gln
20 25 30

Ser Leu Leu Ser Leu Asp Leu Gln Lys Leu Ala Gly Gly Lys Lys Ser
35 40 45

Asn

<210> 186

<211> 72

<212> PRT

<213> Homo sapiens

<400> 186

Arg Ala Ala Ala Leu Ala Cys Ser Cys Pro Thr Gly Ile Glu Trp Arg
 1 5 10 15
 Glu Leu Gln Lys Leu Ser Ile Pro Lys Ala Val Ser Val Val Glu Ala
 20 25 30
 Asp Trp Ile Phe Ala Leu Pro Leu Thr Pro Cys Pro Ser Leu Arg Glu
 35 40 45
 Gly Ser Tyr Ala Arg Thr Pro Thr Ser Gly Thr Arg Val Ala Cys Ala
 50 55 60
 Thr Ser Phe Asp Thr Glu Asn Phe
 65 70

<210> 187

<211> 21

<212> PRT

<213> Homo sapiens

<400> 187

Ser Arg Leu Asp Phe Cys Ser Ala Pro Asp Pro Leu Ser Leu Phe Glu
 1 5 10 15
 Gly Gly Glu Leu Cys
 20

<210> 188

<211> 68

<212> PRT

<213> Homo sapiens

<400> 188

Ile Ser Tyr Leu Val Lys Lys Gly Thr Ala Thr Glu Ser Ser Arg Glu
 1 5 10 15
 Ile Pro Met Ser Thr Leu Pro Arg Arg Asn Met Glu Ser Ile Gly Leu
 20 25 30
 Gly Met Ala Arg Thr Gly Gly Met Val Val Ile Thr Val Leu Leu Ser
 35 40 45
 Val Ala Met Phe Leu Leu Val Leu Gly Phe Ile Ile Ala Leu Ala Leu
 50 55 60
 Gly Ser Arg Lys
 65

<210> 189

<211> 24

<212> PRT

<213> Homo sapiens

Met Ala Arg Thr Gly Gly Met Val Val Ile Thr Val Leu Leu Ser Val
1 5 10 15

Ala Met Phe Leu Leu Val Leu Gly
20

 $\langle 210 \rangle$ 190

<211> 25

<212> PRT

<213> Homo sapiens

<400> 190

Asn Met Glu Ser Ile Gly Leu Gly Met Ala Arg Thr Gly Gly Met Val
1 5 10 15

Val Ile Thr Val Leu Leu Ser Val Ala
20 25

<210> 191

<211> 42

<212> PRT

<213> Homo sapiens

<400> 191

His Glu Ser Ile Ser Tyr Leu Val Lys Lys Gly Thr Ala Thr Glu Ser
1 5 10 15

Ser Arg Glu Ile Pro Met Ser Thr Leu Pro Arg Arg Asn Met Glu Ser
20 25 30

Ile Gly Leu Gly Met Ala Arg Thr Gly Gly
35 40

<210> 192

<211> 62

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (52)

<223> Xaa equals any amino acid

 $\langle 220 \rangle$

<221> SITE

<222> (62)

<223> Xaa equals any amino acid

<400> 192

Thr Ala Asp Glu Leu Gly Cys Gln Asp Met Asn Cys Ile Arg Gln Ala
1 5 10 15

His His Val Ala Leu Leu Arg Ser Gly Gly Gly Ala Asp Ala Leu Val

20 25 30

Val Leu Leu Ser Gly Leu Val Leu Leu Val Thr Gly Leu Thr Leu Ala
35 40 45

Gly Leu Ala Xaa Ala Pro Ala Pro Ala Arg Pro Leu Ala Xaa
50 55 60

<210> 193
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any amino acid

<400> 193

Met Ser Glu Gln Glu Ala Gln Ala Pro Gly Gly Arg Gly Leu Pro Pro
1 5 10 15

Asp Met Leu Ala Glu Gln Val Glu Leu Trp Trp Ser Gln Gln Pro Arg
20 25 30

Arg Ser Ala Leu Cys Phe Val Val Ala Val Gly Leu Val Ala Gly Cys
35 40 45

Gly Ala Gly Gly Val Ala Leu Leu Ser Thr Thr Ser Ser Arg Ser Xaa
50 55 60

Glu Trp Arg Leu Ala Thr Gly Thr Val Leu Cys Leu Leu Ala Leu Leu
65 70 75 80

Val Leu Val Lys Gln Leu Met Ser Ser Ala Val Gln Asp Met Asn Cys
85 90 95

Ile Arg Gln Ala His His Val Ala Leu Leu Arg Ser Gly Gly Gly Ala
100 105 110

Asp Ala Leu Val Val Leu Leu Ser Gly Leu Val Leu Leu Val Thr Gly
115 120 125

Leu Thr Leu Ala Gly Leu Ala Ala Ala Pro Ala Pro Ala Arg Pro Leu
130 135 140

Ala Ala
145

<210> 194
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)

<223> Xaa equals any amino acid

<400> 194

Val Ala Ala Leu Phe Asp Val Pro Val Leu Arg Ser Arg Gly Gly Asp
1 5 10 15

Cys Ala Ser Asp Gly Arg Arg Gly Arg Xaa Thr
20 25

<210> 195

<211> 44

<212> PRT

<213> Homo sapiens

<400> 195

Glu Gly Arg Glu Ala Gly Ser Gly Leu Ser Val Asp Ser Arg Asp Lys
1 5 10 15

Gly His Glu Gly Arg Gly Leu Gly Pro Phe Arg Ile Pro Gln Asp Ser
20 25 30

Gln Val Gln Leu Cys Gln Lys Gly Thr Phe His Val
35 40

<210> 196

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)...(5)

<223> Xaa equals any amino acid

<400> 196

Xaa Xaa Xaa Xaa Xaa Asn His Pro Val Ser Tyr Phe Leu His Asn Asn
1 5 10 15

Pro Ala Phe Pro Ile Asn Leu His Ile Phe Pro Gln Gln Leu Cys Ser
20 25 30

Val Ile Pro Thr Trp Glu Lys Ser Gln Gly
35 40

<210> 197

<211> 190

<212> PRT

<213> Homo sapiens

<400> 197

Ser Gly Gly Ala Lys Pro Pro Ala Lys Met Cys Lys Gly Leu Ala Ala
1 5 10 15

Leu Pro His Ser Cys Leu Glu Arg Ala Lys Glu Ile Lys Ile Lys Leu
20 25 30

Gly Ile Leu Leu Gln Lys Pro Asp Ser Val Gly Asp Leu Val Ile Pro
35 40 45

Tyr Asn Glu Lys Pro Glu Lys Pro Ala Lys Thr Gln Lys Thr Ser Leu
50 55 60

Asp Glu Ala Leu Gln Trp Arg Asp Ser Leu Asp Lys Leu Leu Gln Asn
65 70 75 80

Asn Tyr Gly Leu Ala Ser Phe Lys Ser Phe Leu Lys Ser Glu Phe Ser
85 90 95

Glu Glu Asn Leu Glu Phe Trp Ile Ala Cys Glu Asp Tyr Lys Lys Ile
100 105 110

Lys Ser Pro Ala Lys Met Ala Glu Lys Ala Lys Gln Ile Tyr Glu Glu
115 120 125

Phe Ile Gln Thr Glu Ala Pro Lys Glu Val Asn Ile Asp His Phe Thr
130 135 140

Lys Asp Ile Thr Met Lys Asn Leu Val Glu Pro Ser Leu Ser Ser Phe
145 150 155 160

Asp Met Ala Gln Lys Arg Ile His Ala Leu Met Glu Lys Asp Ser Leu
165 170 175

Pro Arg Phe Val Arg Ser Glu Phe Tyr Gln Glu Leu Ile Lys
180 185 190

<210> 198
<211> 31
<212> PRT
<213> Homo sapiens

<400> 198
Ala Leu Pro His Ser Cys Leu Glu Arg Ala Lys Glu Ile Lys Ile Lys
1 5 10 15

Leu Gly Ile Leu Leu Gln Lys Pro Asp Ser Val Gly Asp Leu Val
20 25 30

<210> 199
<211> 25
<212> PRT
<213> Homo sapiens

<400> 199
Asp Ser Leu Asp Lys Leu Leu Gln Asn Asn Tyr Gly Leu Ala Ser Phe
1 5 10 15

Lys Ser Phe Leu Lys Ser Glu Phe Ser
20 25

